







Participant Handbook

Sector

Apparel

Sub-Sector

Apparel, Made-Ups & Home Furnishing

Occupation **Sourcing**

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Sourcing Manager - Stitched Items

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Certificate

COMPLIANCE TO QUALIFICATION PACK – NATIONAL OCCUPATIONAL STANDARDS

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for

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The preparation of this handbook would not have been possible without the Fashion Industry's support. Industry feedback has been extremely encouraging from inception to conclusion and it is with their input that we have tried to bridge the skill gaps existing today in the industry.

This participant handbook is dedicated to the aspiring youth who desire to achieve special skills which will be a lifelong asset for their future endeavours.

About this book

Welcome to the "Sourcing Manager – Stitched Items" training programme. This PHB is designed to provide participants with comprehensive knowledge about the principles and practices of sourcing raw materials, components, and finished stitched items in the apparel and textile industry. It focuses on developing strategies for vendor identification, evaluation, and management while ensuring cost efficiency, quality compliance, and timely delivery.

The programme also emphasizes planning and executing procurement cycles, negotiating contracts, maintaining ethical and sustainable sourcing practices, and coordinating closely with production, merchandising, and logistics teams. Participants will gain insights into market research, risk assessment, global sourcing trends, and supply chain transparency to effectively manage end-to-end sourcing operations.

This Participant Handbook is designed based on the Qualification Pack (QP) under the National Skill Qualification framework (NSQF) and it comprises of the following National Occupational Standards (NOS)/ topics and additional topics.

- 1. AMH/N0920.Plan for the procurement of materials as per garment design requirements
- 2. AMH/N0921.Procure materials from national and international suppliers related to fabrics, trims and accessories
- 3. AMH/N0922.Supervise and evaluate performance of subordinates
- 4. AMH/N0923. Maintain records about procurement of materials
- 5. AMH/N0924. Maintain health, safety and security in the sourcing department with Gender and PwD Sensitization
- 6. AMH/N0622. Ensure adherence to industry, regulatory, and organizational standards, while incorporating the principles of environmental sustainability
- 7. DGT/VSQ/N0103: Employability Skills (90 Hours)

Symbols Used



Key Learning Outcomes



Unit Objectives



Exercise



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1. Introduction

Unit 1.1: Roles and Responsibilities of a Sourcing Manager

Unit 1.2: Various Employment Opportunities of a 'Sourcing Manager - Stitched Items in the Apparel Industry



-Key Learning Outcomes 🙄



By the end of this module, the participants will be able to:

- 1. Describe the size and scope of the apparel industry.
- 2. Describe various employment opportunities for a 'Sourcing Manager Stitched Items' in the apparel industry.
- 3. Explain roles and responsibilities of a 'Sourcing Manager Stitched Items'.
- 4. Describe the apparel production process and the role that the 'Sourcing Manager Stitched Items' plays in the process.

UNIT 1.1: Roles and Responsibilities of a Sourcing Manager

- Unit Objectives



By the end of this unit, the participants will be able to:

Note: F- Forecast

- 1. Discuss the size and scope of the apparel industry in India
- 2. Analyse who is a sourcing manager
- 3. Identify the role and responsibilities of a sourcing manager

- 1.1.1 Size and Scope of the Apparel Industry in India

The apparel industry in India is a significant component of the country's economy, encompassing a wide range of activities from textile production to garment manufacturing and retail. It is an integral part of the textile and garment industry, which is the second-largest employment provider after agriculture. The size and scope of the apparel industry has been broadly varied among various factors that include the following:

• Market size and growth:

Valued market size of \$165 billion in 2023 and it is expected to reach \$250 billion by 2030 with a rapid growth rate of 10%. The domestic apparel market is worth of \$90–100 billion, driven by a growing middle class and rising disposable income. The industry contributes about 2.3% to India's GDP and accounts for 7% of total industry output in value terms.

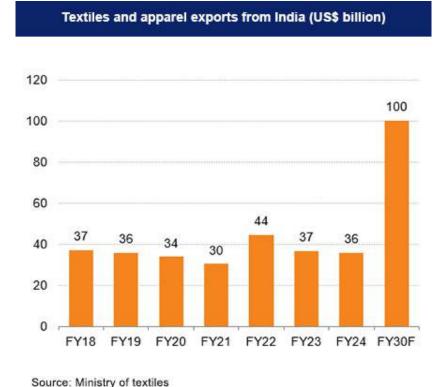


Fig. 1.1.1Market Size of Apparel Industry Exports (Source: https://www.ibef.org/industry/textiles)

Export market:

India is one of the world's largest textile and apparel exporters, ranking among the top global suppliers. Apparel exports stood at \$16–17 billion in the financial year 2023, with major destinations including the USA, EU, UK, UAE, and Japan. The textile and clothing sector is accounted for 10% of India's total exports.

The Indian apparel industry is one of the fastest-growing sectors, supported by domestic demand, exports, and increasing global interest in "Made in India" products. With the rise of sustainable fashion, digital transformation, and government support, the industry is expected to witness significant expansion in the coming years.

1.1.2 Apparel Production Process and the Role of Sourcing Manager in Stitched Items

Apparel Production Process

The apparel production process in India follows a structured workflow from raw material procurement to the final product reaching consumers. The process is labour-intensive, involves multiple stakeholders, and requires quality control at every stage.



Fig. 1.1.2: Apparel Production Process

The apparel production process in India follows a structured workflow, starting with the pre-production phase, where brands and manufacturers conduct market research to analyse fashion trends and consumer demands. Designers create sketches and designs, select suitable fabrics, and develop prototypes for approval before bulk production. In the production phase, raw materials undergo inspection and testing to ensure quality. Fabric is then cut, bundled, and stitched through an assembly-line process, with specialized machines for different garment components. Additional processes like embroidery, printing, and washing enhance the final product. Rigorous quality control and inspection ensure that only flawless garments proceed to the next stage. This structured approach maintains efficiency, quality, and consistency in India's apparel manufacturing industry.

India's apparel production process is one of the most extensive and diverse globally, covering everything from traditional handloom textiles to modern mass manufacturing. With increasing investments in technology, sustainability, and automation, the industry is evolving to meet both domestic and global demand efficiently.

Who is a Sourcing Manager?

A Sourcing Manager in the Indian apparel industry is the professionals that manage supplier relationships, negotiate contracts, and optimize the supply chain to meet production and business goals. They ensure procuring raw materials, fabrics, trims, and finished garments while ensuring quality, cost-effectiveness, and timely delivery. Their strategic role ensures the smooth flow of materials required for production

while maintaining quality, cost-efficiency, and supplier relationships. Their ability to negotiate, manage risks, and optimize the supply chain directly impacts the brand's success in a competitive fashion market.

Role of sourcing manager in stitched items

A sourcing manager in India's stitched garment business is in charge of acquiring raw materials, overseeing supplier relationships, guaranteeing quality standards, and cutting prices in order to maintain a seamless supply chain. They play a vital role in guaranteeing the prompt and economical manufacturing of stitched goods like clothing, uniforms, household textiles, and fashion accessories.

1.1.3 Responsibilities of a Sourcing Manager

A sourcing manager is responsible for identifying and selecting the suppliers with required fabrics, accessories and trims to manufacture stitched garments such as pants, shirts and dresses. They ensure the high quality while meeting the production deadlines and design specifications, especially the procurement process of materials to create finished apparel products. The key responsibilities of a sourcing manager include the following:

1. Finding the Supplier & Vendor Management

Sourcing Manager identifies, evaluates, and then on-board reliable as well as trustworthy suppliers, manufacturers, and vendors for fabrics, trims, and stitched garments. They focus on building and maintain strong supplier relationships to ensure long-term partnerships. Furthermore, they ensure that vendors meet quality, ethical compliance standards and capacity. Sourcing manager negotiate pricing, payment terms, and contract agreements with domestic and international vendors.

2. Raw Material Procurement & Sourcing Strategy

Fabrics, yarns, trims, and accessories such as buttons, zippers, price tags and labels are the major sourcing raw materials. Sourcing Manager ensure that these materials align with design specifications, durability, and comfort requirements. They monitor raw material prices and secure cost-effective procurement deals as well as work with multiple suppliers to mitigate risk and ensure timely availability of materials.

3. Cost Control & Budget Management

Managers optimize sourcing costs while maintaining high quality standards. They identify cost-saving opportunities through bulk purchasing, alternative suppliers, or new materials and develop a concise budgets as well as forecasts for sourcing expenses.

4. Quality Assurance & Compliance

Sourcing Managers focus on implementing high quality control processes for raw materials and finished stitched garments. They work with the quality control team to conduct inspections for stitching defects, colour consistency, and fabric flaws. They ensure compliance with government regulations, sustainability policies, and export requirements. Managers are reliable to conduct supplier audits to verify adherence to labour laws and ethical manufacturing practices.

5. Supply Chain & Logistics Management

Sourcing Manager coordinates with production teams to ensure the timely availability of materials. They plan and oversee inventory levels to prevent shortages or overstocking. Furthermore, they manage logistics, warehousing and shipment tracking for both raw materials and finished garments. They work with freight and logistics partners to ensure smooth import/export operations.

6. Market Research & Trend Analysis

Sourcing managers keeps updating on fabric innovations, emerging fashion trends, and new sourcing locations based on the market research. They analyse competitor sourcing strategies and evaluate alternative supply sources. They research sustainable materials and implement eco-friendly sourcing solutions.

7. Risk Management & Problem-Solving

Sourcing Managers have adequate role of analysing and mitigate risks related to supply chain disruptions, currency fluctuations, and raw material shortages. They are responsible to develop contingency plans by sourcing from multiple suppliers by addressing issues such as production delays, quality issues, or shipment problems proactively.

UNIT 1.2: Various Employment Opportunities of a 'Sourcing Manager - Stitched Items in the Apparel Industry

Unit Objectives



By the end of this unit, the participants will be able to:

- 1. Discuss the employment opportunities for becoming a sourcing manager in stitched items
- 2. Analyse the growth opportunities for a sourcing manager
- 3. Identify the career progression of a sourcing manager

1.2.1 Employment Opportunities of a Sourcing Manager

Sourcing Managers have numerous career opportunities in manufacturing, exports, e-commerce, retail, and sustainable fashion with India's booming apparel industry and strong textile export market. Skilled professionals who understand cost optimization, quality control, and supply chain efficiency will continue to be in high demand.

Sector	Role
Apparel & Textile Manufacturing Companies	Manage raw material procurement, supplier relationships, and cost negotiations.
E-commerce & Retail Brands	Source ready-made garments and fabrics for online platforms and retail chains, ensuring cost-effectiveness and timely deliveries.
Sustainable & Ethical Fashion Brands	Work with organic, eco-friendly, and fair-trade material suppliers for ethical fashion brands.
Government & Industry Associations	Work with organizations that promote textile exports and sustainable sourcing policies.
Export Houses & Buying Agencies	Work with international brands and retailers to source stitched garments from Indian manufacturers.
Freelancing & Consulting	Provide sourcing and supply chain consulting services to small brands, start-ups, and international buyers.
Luxury & Designer Fashion Brands	Source premium fabrics, trims, and embellishments for highend fashion brands and boutique designers.

Table 1.2.1: Employment Opportunities for Sourcing Manager

The Indian apparel sector is one of the largest in the world, offering diverse employment opportunities for Sourcing Managers across various industries. The need for skilled sourcing professionals is higher than ever with India's strong manufacturing base, growing export market, and increasing demand for sustainable fashion.

1.2.2 Growth Opportunities

The apparel industry in India is a global powerhouse that helps in contributing significantly to the country's economy and employment sector. As one of the largest textile and garment producers in the world, India has a robust manufacturing infrastructure, a vast domestic market, and a strong export presence. The industry's growth has created numerous career opportunities for professionals in various fields, including sourcing, procurement, and supply chain management.

The industry provides immense potential for career advancement, as sourcing plays a critical role in ensuring cost efficiency, quality control, and timely production for individuals aspiring to become sourcing managers. The career path typically begins with entry-level roles such as Sourcing Executives or Buyers, where professionals gain hands-on experience in supplier negotiations, material procurement, and vendor management. With experience and skill enhancement, professionals can progress to midlevel positions, such as Sourcing Specialists or Category Managers, where they oversee larger sourcing projects, implement cost-saving strategies, and work with international suppliers.

1.2.3 Career Progression

A career in sourcing within India's apparel industry follows a well-defined growth trajectory, from entry-level positions to executive leadership roles. The journey involves gaining experience, developing expertise in procurement and supply chain management, and mastering negotiations with suppliers. With India's growing importance in global apparel manufacturing, sourcing professionals have numerous career advancement opportunities both domestically and internationally.

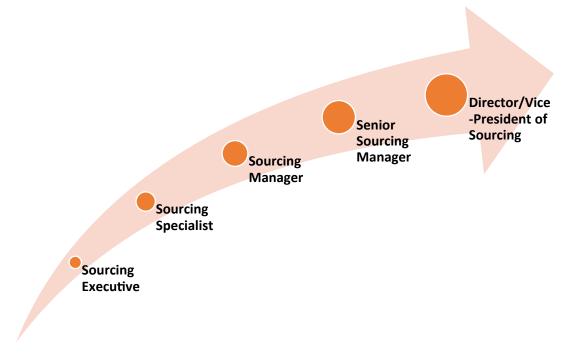


Fig. 1.2.1: Career Progression of a Sourcing Manager

In the Indian apparel sector, sourcing specialists can focus on a variety of niche markets to further their careers and keep up with changing market trends. Opportunities to operate production facilities abroad, deal with cross-border supplier agreements, and collaborate with global brands are provided by global sourcing and international trade. Proficiency in international logistics, import-export laws, and global cost optimization techniques are necessary for this specialism. Sourcing professionals can diversify their expertise, gain industry recognition, and advance into leadership roles within their chosen segment, both in India and global markets by specializing in these domains.

Summary



- India's apparel industry is valued at \$165 billion (2023) and expected to reach \$250 billion by 2030, growing at 10% annually.
- The production process includes market research, design, fabric sourcing, cutting, stitching, embroidery, printing, and quality control.
- The sourcing profession is evolving with sustainability, digital transformation, and emerging fashion trends.
- Technology adoption in procurement and supply chain management is reshaping the industry for better efficiency and scalability.
- Key responsibilities of a sourcing manager includes supplier & vendor management, raw material procurement, cost & budget control, quality compliance and logistics & supply chain management
- Sourcing Managers have career options in manufacturing, exports, e-commerce, retail, luxury fashion, and sustainable fashion.
- The sourcing field offers immense career potential as it plays a crucial role in cost management and production efficiency.
- Professionals can advance to senior sourcing roles, supply chain heads, or even C-suite positions in large organizations.
- Expertise in global logistics, import-export regulations, and cost optimization enhances career prospects both domestically and internationally.

Exercise 🔀

Multiple-choice Question:

1. What is the estimated market size of India's apparel industry by 2030?

a. \$165 billion

b. \$200 billion

c. \$250 billion

d. \$300 billion

2. Which of the following is NOT a responsibility of a Sourcing Manager in the apparel industry?

a. Raw material procurement

b. Digital marketing strategy

c. Supplier and vendor management

d. Cost control and budget management

3. Which sector provides employment opportunities for a Sourcing Manager in the apparel industry?

a. Banking & Finance

b. Government & Industry Associations

c. Medical Research

d. Software Development

4. What percentage of India's GDP does the apparel industry contribute?

a. 1.5%

b. 2.3%

c. 4.5%

d. 5.7%

- 5. What is a key challenge that a Sourcing Manager faces in the apparel industry?
 - a. Managing employee payroll
 - b. Monitoring raw material prices and availability
 - c. Writing brand slogans
 - d. Conducting digital advertising campaigns

Descriptive Questions:

- 1. Explain the role of a Sourcing Manager in the apparel industry.
- 2. Discuss the key employment opportunities available for a Sourcing Manager in India's apparel industry along with examples.
- 3. What are the major responsibilities of a Sourcing Manager in raw material procurement?
- 4. How does the fluctuation of exchange rates impact the apparel industry in India?
- 5. Describe the career progression of a Sourcing Manager in India's apparel industry.

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Scan the QR codes or click on the link to watch the related videos



https://youtu.be/dSn7iz-bFN8?si=YLT-yo6gT8nMiYVI

Introduction to Apparel Industry



https://youtu.be/ QaS4sI0n5Qg?si=OmWmWbc0NzdOxhBF

Garments Full Production Process



https://youtu.be/VG3p5DpQY8c?si=fLvVceEo5Q49Mw4J

The Textile and Apparel Sector in India











2. Plan for The Procurement of Materials as per Garment Design Requirements

Unit 2.1: Types of Fabrics used in Sourcing

Unit 2.2: Garment Manufacturing Process

Unit 2.3: Procurement Strategy



Key Learning Outcomes



By the end of this module, the participants will be able to:

- 1. Describe the different types of woven and knit fabrics and their trade names like georgette, chiffon, silk, cotton Lycra, cotton knit jersey, etc.
- 2. Describe the different types of trims and accessories.
- 3. Describe the garment manufacturing process.
- 4. Explain various types of made-ups and home furnishing products and their construction process.
- 5. Describe the basic mathematical knowledge required to calculate the average requirement of fabrics, trims and accessories according to the style order received.
- 6. State the organization's policies related to procurement
- 7. Analyse the national and international market requirement and trends, prevailing prices, documents etc.
- 8. Collect information about sourcing needs for materials like fabrics, trims and accessories from designing and merchandising department.
- 9. Conduct general market research in various categories of garments, made-ups and home furnishing by collaborating with team members.
- 10. Interpret the changes of balance in buyer supplier power by analysing the forecasting and the trend.
- 11. Monitor and forecast upcoming levels of demand and plan the procurement strategy

UNIT 2.1: Types of Fabrics used in Sourcing

Unit Objectives



By the end of this unit, the participants will be able to:

- 1. Discuss the different types of woven and fabric materials
- 2. Analyse the trade names of fabrics materials and woven
- 3. Analyse the types of trims and accessories available for manufacturing

2.1.1 Analysing the Different Types of Woven and Knit Fabrics and its Trade Name

Need for high-quality raw materials during sourcing

Sourcing is a crucial part of India's garment manufacturing sector since the cost, quality, and availability of raw materials have a direct impact on pricing, production efficiency, and overall competitiveness. The business depends on a wide variety of textiles, trims, and accessories to satisfy the demands of both domestic and international markets. The following are the reasons for sourcing manufacturing materials in India:

- **1. Diverse Fabric Requirements:** India's apparel industry uses a wide range of materials, including cotton, silk, wool, polyester, rayon, linen, and technical textiles.
- **2. Cost Optimization & Competitive Pricing:** Bulk procurement and strategic sourcing help manufacturers reduce costs while ensuring high-quality materials.
- **3. Quality & Compliance Standards:** High-quality fabric and trims are essential to maintain brand reputation and meet international quality certifications (OEKO-TEX, GOTS, ISO, etc.).
- **4. Timely Availability & Supply Chain Efficiency:** Sourcing ensures a steady supply of raw materials, avoiding production delays and stock shortages.
- **5. Sustainability & Eco-Friendly Sourcing:** Growing demand for organic cotton, recycled polyester, and biodegradable fabrics has increased sustainable sourcing efforts.
- **6. Global & Domestic Market Demands:** Manufacturers must source raw materials with rising exports that meet international fashion trends and consumer preferences.

Different types of woven fabrics

India is one of the largest producers of woven fabrics, offering a diverse range of textiles for various apparel, home furnishings, and industrial applications. Woven fabrics are created by interlacing two sets of yarns (warp and weft) at right angles, resulting in strong, durable, and structured textiles. The choice of fabric depends on fibre type, weaving technique, texture, weight, and end-use. Various kinds of woven fabrics have been mentioned below in the table:

Type of woven	Description	Material	Sourcing	Used in/ Examples
		Cotton Fabric	Sourced from India	Poplin, Cambric, Voile, Muslin, Denim.
		Silk Fabric		
	These fabrics are derived from natural fibres such as cotton, silk,	SIR FABRIC	Sourced from Banaras, Mysore, Assam, and Kanchipuram	Tussar, Mulberry, Chanderi, Banarasi Silk.
Natural Woven Fabrics	wool, and linen. They are breathable, eco-friendly, and widely used in both traditional and contemporary fashion.	Wool Fabric	Sourced from regions like Ladakh, Himachal Pradesh, and Kashmir	Pashmina, Merino Wool, Cashmere.
		Linen Fabric		
			Sourced from Bihar and West Bengal.	Clothing, bed sheets and towels
Synthetic & Blended Woven Fabrics	These fabrics are man-made or mixed with natural fibres to enhance strength, durability, and costeffectiveness.	Polyester Fabric	Petroleum extracted from chemicals like ethylene and Para-xylene	Sportswear, uniforms, and industrial textiles

Type of woven	Description	Material	Sourcing	Used in/ Examples
		Rayon & Viscose Fabric	Wood pulp	Women's apparel, ethnic wear, and drapery
		Nylon Fabric	Petroleum	Active wear, raincoats, and outerwear
		Blended Fabrics	Combination of two or more fabrics like cotton and wool	Cotton- Polyester, Cotton- Lycra, Wool- Silk
Traditional & Handloom Woven Fab-	India is globally recognized for its rich heritage of hand-woven fabrics, often	Khadi	Cotton, wool khadi poly and silk	Kurtas, sarees, and eco-friendly fashion
rics	made using traditional techniques.	Chanderi	Cotton or silk yarns	Sarees and ethnic wear

Type of woven	Description	Material	Sourcing	Used in/ Examples
		Banarasi Brocade	Sourced from Banaras	Bridal wear and high- end fashion
		Ikat	Sourced from Southeast Asia	Ethnic wear, sarees, and upholstery
		Kanjivaram Silk	Sourced from Kanchipuram in Tamil Nadu	South Indian sarees
Industrial & Technical	These are specialized fabrics used in automotive,	Canvas	Sourced from hemp or linen	Bags, tents, and work- wear
Woven Fabrics	medical, and industrial applications.	Denim	Sourced from cotton plant	Jeans and jackets

Type of woven	Description	Material	Sourcing	Used in/ Examples
		Fire-Resistant & Waterproof Fabrics		
			Sourced from Acrylic, Polyester and Nylon	Safety gear and protective clothing
		Filter Fabrics & Geo-textiles	Sourced from polyester	Industrial filtration and construction

Table 2.1.1: Types of woven fabrics

India's woven fabric industry offers a wide variety of materials, ranging from traditional handloom textiles to high-performance industrial fabrics. The choice of woven fabric depends on end-use, durability, texture, and budget considerations. Sourcing managers must carefully evaluate suppliers based on quality, sustainability, and pricing to meet both domestic and international demands.

Various types of knit fabrics used for sourcing

Knit fabrics are made using a looped structure, providing stretch, comfort, and flexibility. India is a major producer and supplier of knit fabrics, catering to casual wear, active-wear, lingerie, and industrial textiles. Knit fabrics are broadly classified into weft knits and warp knits, each offering different properties and uses in the following table:

Weft Knits T-shirts, leggings, dresses, and undergarments	Types of Knits	Trade Names	Used in/Examples
Jersey Knit	Weft Knits	Jersey Knit	

Types of Knits	Trade Names	Used in/Examples
	Rib Knit	Cuffs, collars, waistbands, turtlenecks, and body-hugging garments
	Interlock Knit	Premium T-shirts, polo shirts, dresses, babywear, and winter wear
	French Terry Knit	Premium T-shirts, polo shirts, dresses, babywear, and winter wear
	Fleece Knit	Sweatshirts, joggers, hoodies, and loungewear

Types of Knits	Trade Names	Used in/Examples
	Pique Knit	Polo shirts, sportswear, and casual wear
	Tricot Knit	Lingerie, innerwear, uniforms, and lining fabrics
Warp Knits	Raschel Knit	Netted fabrics, lace, sportswear, and decorative apparel
	Mesh Knit	Sportswear, athletic wear, and netted garments
Specialty Knit Fabrics	Spandex/ Lycra Blends	Active-wear, yoga pants, leggings, and body-hugging clothing

Types of Knits	Trade Names	Used in/Examples
	Bamboo Knit	Organic babywear, sustainable fashion, and innerwear
	Modal & Tencel Knit	Luxury loungewear, premium innerwear, and soft T-shirts

Table 2.1.2: Variety of Knit Fabrics

India offers a vast variety of knit fabrics for sourcing, ranging from casual wear to high-performance textiles. The right choice depends on factors like stretch, durability, breathability, and texture, making knit fabrics essential in modern apparel manufacturing. Sourcing managers must carefully evaluate fabric properties, supplier quality, and pricing to meet market demands efficiently.

-2.1.2 Different Types of Trims and Accessories

Various trims and accessories are sourced to enhance the functionality, durability, and aesthetics of garments in the apparel industry. These components play a crucial role in garment construction and finishing. The right trims and accessories add value to garments, improving both aesthetics and functionality. Indian apparel sourcing involves a mix of traditional handcrafted trims. Trims are the materials attached to the fabric during clothes or garment construction. The list of trims essential for apparel structure and functionality has been provided below in the table:

Trims	Types	Used in
Functional Trims: Functional trims are essential components that enhance the structure, durability, and usability of garments.	Threads	Used for stitching and embroidery

Trims	Types	Used in
	Zippers	Used for openings in jackets, jeans, dresses, etc.
	Buttons	Made from plastic, metal, wood, shell, coconut, and mother of pearl; used in shirts, jackets, and trousers
	Snaps	Used in baby clothing, shirts, and jackets
	Buckles On the second of the	Used in belts, bags, and accessories
	Shoulder Pads	Used in blazers, coats, and structured garments

Trims	Туреѕ	Used in
	Velcro	Used in children's wear, shoes, and medical clothing for easy fastening
	Elastic Bands	
		Used in waistbands, cuffs, and sportswear for flexibility
	Drawstrings	
		Used in hoodies, track pants, and bags for adjustment
	Hooks and Eyes	
		Used for fastening on garments like trousers, bras, and skirts
	Lace	
Decorative Trims: Decorative trims are used to enhance the appearance of garments and add a fashionable element.		Used for decorative edges in dresses, lingerie, and ethnic wear.

Trims	Types	Used in
	Ribbons	Used in fashion trims, packaging, and accessories.
	Embroidery & Appliqué	Enhances fabric with artistic designs
	Tassels & Fringes	Used in ethnic and boho-style clothing
	Reflective Tapes	Used in safety wear, active-wear, and nightwear
	Piping & Cords	Used in dressmaking for finishing edges.

Trims	Types	Used in
	Sequins & Beads	
		Used in embroidery and embellishment on saree and party wear.

Table 2.1.3: Types of trims used for sourcing

Accessories

Accessories are separate elements that complement the garment or outfit. Accessories are essential in apparel sourcing because they enhance the functionality, aesthetics, branding, and durability of garments. Accessories add significant value to the final product whether used for fastening, decoration, branding, or packaging. Many accessories, such as zippers, buttons, hooks, and buckles, are necessary for garment construction and usability. They help in enhancing functionality, improving aesthetic appeal, and strengthen brand identity as well as recognition. The different types of accessories have been mentioned below:

Accessories	Types	Used in
Garment Accessories: Garment accessories are fashion elements that complement outfits, improve style, and add	Belts	Used for both fashion and function, helping to secure garments and enhance styling
	Caps & Hats	Used in casual wear, uniforms, and fashion
functionality.	Scarves & Stoles	Used for fashion and warmth

Accessories	Types	Used in
	Shoes	Includes traditional and modern footwear
	Gloves	Made from leather, wool, or synthetic materials used for protection and style
	Bags & Clutches	Used as complementary fashion accessories
Branding Accessories: Branding accessories are used to establish brand identity, ensure product authenticity, and provide garment information.	Labels & Tags	used for branding mainly labels, size labels, wash care labels
	Product description: Price: Made in: 3 5 6 8 4 4 8 7 9 6 3 2 - A - K - R > modif.ai	Used for inventory management and retail

Accessories	Types	Used in
	Hangtags	Attached to garments for branding and pricing
	Plastic & Paper Bags	Used for retail garment packaging
Packaging Accessories: Packaging accessories help in protecting garments, enhancing presentation, and improving brand image.	Boxes	Used for premium packaging, especially for luxury clothing
	Hangers	Used for display and transportation of garments

Table 2.1.4: Accessories used for sourcing

Accessories play a vital role in the apparel industry, enhancing garments in terms of functionality, aesthetics, branding, and packaging. They are not merely add-ons but essential components that contribute to a product's market value, consumer appeal, and usability. In today's competitive fashion market, selecting high-quality, innovative, and sustainable accessories is crucial for brand differentiation and customer satisfaction. Effective sourcing of accessories ensures that garments are visually appealing, durable, and aligned with market trends, ultimately contributing to the overall success of a brand.

2.1.3 Different Types of Made-Ups and Home Furnishing Products

India is a leading supplier of made-ups and home furnishing products, offering a wide range of textiles for both domestic and international markets. Made-ups refer to finished textile products that go beyond apparel, such as bedding, curtains, towels, and decorative fabrics, which are commonly sourced by apparel sourcing managers. These products are valued for their craftsmanship, high-quality fabrics, and diverse designs, making India a key player in the global home textiles industry. The types of made-ups and home furnishing products are detailed in the table below:

Categories	Classifications	Purpose
	Bed Sheets & Bed Covers	Cotton, silk, and blended fabrics in plain, printed, or embroidered styles protects the underlying bedding
	Pillowcases & Cushion Covers	Available in various materials with embellishments, embroidery, or woven textures.
Bedding & Bedroom Furnishings	Quilts, Comforters & Duvets	It is designed for different climates using cotton, polyester, or wool filling.
	Mattress Protectors & Bed Skirts	It enhances bedding longevity and aesthetics.

Categories	Classifications	Purpose		
	Curtains & Drapes	It is made from cotton, silk, jacquard, linen, or polyester for home and commercial spaces.		
Living Room & Decorative Textiles	Sofa & Chair Covers	It protects furniture and enhances décor with various fabric options.		
	Throws & Blankets	Materials like wool, fleece, or knitted options are used for warmth and aesthetics.		
Bath Towels & Hand Towels Bath Linen & Towels		It is made from high-absorbency cotton, terry cloth, or bamboo fabric.		

Categories	Classifications	Purpose		
	Bath Mats & Rugs	Anti-slip, moisture-resistant mats for bathrooms.		
	Robes & Bath Wraps	It is used in homes, hotels, and spas, available in cotton and waffle fabrics.		
Table & Kitchen Linen	Tablecloths & Table Runners	It is used for decorative and functional textiles within dining spaces.		
	Napkins & Placemats	It is available in cotton, linen, or polyester blends for casual and luxury dining.		

Categories	Classifications	Purpose		
	Aprons & Oven Mitts	It is made from heat-resistant fabrics like cotton canvas or quilted materials.		
	Kitchen Towels & Dishcloths	It is essential for cleaning and drying, available in various weaves.		
Floor Coverings & Rugs	Carpets & Area Rugs	Hand-woven, tufted, or machine-made options in wool, jute, and cotton.		

Categories	Classifications	Purpose		
	Doormats & Runners	Functional mats in coir, rubber, or fabric are used for homes and commercial spaces.		
Outdoor & Specialty Home Furnishings	Cushions & Hammocks	It is usually designed for patios, gardens, and balconies.		
	Canopies & Mosquito Nets	Functional textiles are utilised for beds and outdoor spaces.		

Categories	Classifications	Purpose
	Tents & Upholstery Fabric	
		It is used for outdoor events, camping, and furniture upholstery.

Table 2.1.5: Made-up and home furnishing items for sourcing

Made-ups and home furnishing products play a crucial role in the textile industry due to their high global demand, customization potential, and value addition. Apparel sourcing managers is important as it focus on:

- Sustainability: It sources organic cotton, recycled materials, and eco-friendly fabrics.
- **Customization:** It offers embroidered, printed, or handcrafted designs for luxury markets.
- Bulk Production: It ensures cost-effective manufacturing for exports.
- Compliance & Quality: It helps in meeting international safety, quality, and ethical standards.

India's made-ups and home furnishing industry is a major contributor to the global textile trade. With a rich heritage of craftsmanship, diverse fabric options, and strong export potential, apparel sourcing managers must ensure high-quality, sustainable, and innovative designs to meet the evolving demands of both domestic and international markets.

Construction process of made-ups and home-furnishing products

The construction process of made-ups and home-furnishing products in India involves several stages, from raw material procurement to final quality checks and packaging. Apparel sourcing managers play a crucial role in overseeing this process to ensure efficiency, quality, and compliance with industry standards.

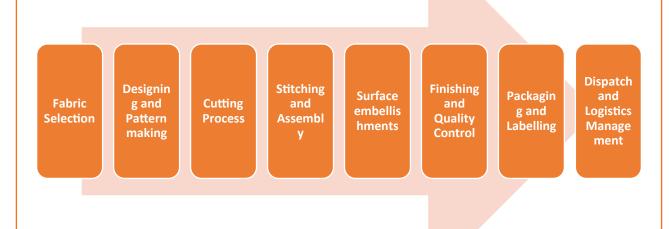


Fig. 2.1.1: Construction stages of made-ups and home-furnishing products

Sourcing managers play a crucial role in ensuring the smooth production of made-ups and home-furnishing products in the apparel industry. Their responsibilities span from raw material procurement to quality assurance and compliance with industry standards. Below is an in-depth look at their key roles and responsibilities. The role of sourcing managers is to

- **Supplier Coordination:** Sourcing managers collaborate with fabric mills and manufacturers to procure high-quality raw materials at competitive prices.
- **Quality Assurance:** They conduct inspections at multiple production stages to ensure that finished products meet industry and customer standards.
- **Compliance Management:** Sourcing managers enforce adherence to domestic and international safety regulations, labour laws, and environmental guidelines.
- **Production Efficiency:** They optimize workflows to minimize lead time, reduce material wastage, and enhance overall manufacturing productivity.

Sourcing managers play a strategic role in the construction of made-ups and home-furnishing products. Their responsibilities include supplier coordination, quality assurance, compliance management, and production efficiency, all of which contribute to the successful sourcing and production of high-quality stitched items. By balancing cost-effectiveness, sustainability, and compliance with global standards, sourcing managers ensure that their products remain competitive in both domestic and international markets.

UNIT 2.2: Garment Manufacturing Process

Unit Objectives



By the end of this unit, the participants will be able to:

- 1. Discuss the National and International market requirements for sourcing
- 2. Identify the collection of information regarding need for materials in sourcing
- 3. Discuss the types of man-made and home furnishing products

2.2.1 National and International Market Requirement and Trends

India is a global hub for apparel sourcing, supplying to both domestic and international markets. The country's rich textile heritage, skilled labour, and vast production capacity make it a preferred sourcing destination. However, market requirements and trends vary between national and international buyers.

National requirements

The Indian apparel market is one of the largest and most diverse in the world, catering to a wide range of consumers across different income groups, demographics, and fashion preferences. It is primarily price-sensitive and trend-driven, with strong demand for fast fashion, ethnic wear, sustainable products, and value-for-money garments. The evolution of digital retail, growing awareness of sustainability, and increased focus on comfort and personalization are shaping the future of apparel sourcing in India. The market requirements are mentioned below that helps the apparel industry to analyse the fashion trends:

1. Affordable Pricing

Price is a key factor influencing consumer behaviour in India. The majority of buyers prefer budget-friendly and mass-market clothing that offers good value for money. Brands must strike a balance between cost-effectiveness and quality to attract price-conscious customers.

2. Ethnic & Fusion Wear

India's rich cultural heritage has sustained a strong demand for ethnic clothing such as sarees, salwar suits, and kurtis. However, with globalization, there is also a rise in fusion wear, which combines traditional designs with contemporary silhouettes. Indo-western outfits, handloom textiles, and regional artisanal work are becoming popular, catering to both modern and traditional preferences.

3. Fast Fashion & Seasonal Trends

The fast fashion industry in India is expanding rapidly, with consumers influenced by celebrity culture, social media trends, and fashion influencers. Retailers must stay ahead by frequently updating collections to align with seasonal trends, festivities, and international fashion movements. Quick turnaround times in production and distribution are crucial for success.



Fig. 2.2.1: Indian Apparel Retail

4. Quality & Durability

While affordability is important, Indian consumers also value durability in their clothing. Buyers expect garments that maintain their shape, colour, and finish over multiple uses and washes. Manufacturers must ensure strong stitching, high-quality fabric, and good craftsmanship to meet this expectation, especially in work-wear, daily wear, and premium ethnic clothing.

5. Sustainability & Organic Fabrics

There is an increasing preference for eco-friendly textiles such as organic cotton, khadi, bamboo fabric, and plant-based dyes with growing environmental awareness, there. Consumers are actively seeking garments made through sustainable practices that support handloom weavers and small-scale artisans. The shift toward slow fashion and conscious consumerism is influencing sourcing strategies within the Indian market.

With evolving consumer preferences and technological advancements, the Indian apparel market is undergoing significant transformations. The key trends in the Indian Market have been described in the following that are shaping the future of garment sourcing and retail in India:

1. Rise of E-commerce & Omni-channel Retail

The growth of online shopping has revolutionized the apparel market in India. Consumers are increasingly purchasing clothing from e-commerce platforms, mobile apps, and social media stores, alongside traditional brick-and-mortar outlets. Brands are adopting an omni-channel strategy, where they integrate both online and offline experiences to offer seamless shopping, better product discovery, and doorstep delivery services.



Fig. 2.2.2: E-Commerce platforms based in Indian Apparel

2. Growth of Athleisure & Comfortable Fashion

The increasing focus on health, fitness, and lifestyle comfort has boosted the demand for athleisure, active wear, and yoga clothing. Modern consumers prefer versatile, breathable, and stylish outfits that can be worn both casually and during workouts. As a result, many Indian brands are introducing stretchable, sweat-wicking, and performance-based fabrics to cater to this demand.



Fig. 2.2.3: Active-wear clothing in India

3. Customization & Personalization

Consumers today seek individuality and uniqueness in their fashion choices. There is a rising demand for personalized designs, monogrammed clothing, and custom embroidery. Brands are offering made-to-order garments, DIY fashion, and interactive design experiences to engage customers and enhance brand loyalty.



Fig. 2.2.4: Customer embroidery

4. Street-wear & Youth Fashion

The youth-driven fashion market in India is influenced by global street-wear trends, pop culture, and digital influencers. There is growing demand for oversized t-shirts, graphic prints, neon colours, and statement fashion pieces. Social media platforms like Instagram, YouTube, and Tik-Tok play a significant role in shaping youth fashion trends, making it essential for brands to stay adaptable and relevant.



Fig. 2.2.5: Graphic T-shirt

5. The "Make in India" Initiative & Local Sourcing

The Indian government's "Make in India" initiative is encouraging domestic manufacturing and reducing dependence on imports. As a result, many brands are shifting towards local sourcing of fabrics, trims, and accessories to support indigenous industries. This movement has also led to the revival of traditional handloom weaving, artisanal crafts, and regional textile industries, boosting employment and sustainability in the fashion sector.



Fig. 2.2.6: "Make in India" initiative

International requirements

India is a leading exporter of textiles and garments, supplying a wide range of apparel to key international markets, including the USA, European Union, UK, UAE, and Japan. The country's rich textile heritage, skilled workforce, and cost-efficient production make it a preferred sourcing destination. However, global buyers have stringent requirements, focusing on sustainability, ethical sourcing, compliance, and high-quality production.

As the global fashion industry shifts towards eco-conscious practices, digital innovation, and premium craftsmanship, Indian manufacturers must align their sourcing strategies to stay competitive in the international market. Global fashion brands and retailers source garments from India due to its diverse textile options, scalable production capacity, and competitive pricing. However, they expect strict adherence to sustainability standards, ethical labour practices, and supply chain transparency. Market requirements that are essential for sourcing are based on the following:

1. Sustainability & Ethical Production

With rising concerns about climate change and environmental impact, international buyers demand sustainably sourced textiles. This includes: Organic Cotton & Eco-friendly Fabrics – Use of GOTS-certified organic cotton, bamboo fibre, hemp, and linen. Recycled & Up cycled Materials – Incorporation of recycled polyester, regenerated yarns, and minimal-waste production methods. Fair Trade & Ethical Sourcing – Ensuring fair wages, ethical labour conditions, and environmentally responsible production. Brands prefer suppliers that minimize carbon footprints, use non-toxic dyes, and follow water-saving techniques in fabric processing.

2. High-Quality Standards & Compliance

International sourcing requires strict adherence to global quality, safety, and environmental standards. Some key certifications include: ISO (International Organization for Standardization) – Ensures quality management and production efficiency. OEKO-TEX Standard 100 – Guarantees that textiles are free from harmful chemicals and safe for human use. GOTS (Global Organic Textile Standard) – Certifies organic fibre production with ethical and sustainable processes. SEDEX (Supplier Ethical Data Exchange) – Ensures ethical working conditions, labour rights, and safety compliance. Fair Trade Certification – Guarantees fair wages, ethical labour practices, and sustainable sourcing. Global retailers prioritize suppliers who comply with these standards, ensuring that products meet international consumer expectations and regulatory requirements.

3. Competitive Pricing & Cost Efficiency

While sustainability and quality are essential, international buyers still demand competitive pricing. Indian suppliers must maintain cost-effectiveness by optimizing production processes to reduce costs without compromising on quality and using advanced textile technologies to increase efficiency as well as sourcing raw materials locally to reduce logistics and import expenses. Maintaining the balance between affordable pricing and ethical sourcing helps in sustaining long-term relationships with global buyers.

4. Bulk Production Capacity & Lead Time Management

International fashion retailers require suppliers with large-scale production capabilities and efficient supply chain management. They offer mass production capacity for the ability to handle bulk orders for global brands. Furthermore, quick turnaround & lead time efficiency leads in meeting fast fashion deadlines with optimized manufacturing. Strong logistics & export networks helps in ensuring timely delivery across global destinations. Efficient time management in sourcing, production, and distribution is crucial to meeting international market demands.

5. Customization & Private Label Manufacturing

Many international brands rely on customized sourcing solutions. Manufacturing garments under global brand names and offering exclusive prints, cuts, embroidery, and detailing as well as catering to both large retail chains and boutique fashion houses. Indian manufacturers who offer tailored solutions for brand differentiation have a competitive edge in the global apparel industry.

Fashion trends are rapidly evolving, and sourcing strategies must adapt to shifting consumer preferences and technological advancements. The following global trends are influencing India's apparel export market:

1. Sustainable & Slow Fashion

There is a global shift from fast fashion to slow fashion, promoting eco-friendly, biodegradable fabrics – Increasing demand for sustainable and plant-based textiles. Indian suppliers focusing on zero-waste production and eco-conscious textiles have a strong advantage in this evolving market.

2. Digital & Smart Textiles

Technological advancements in fashion are leading to a demand for wearable technology for fitness tracking, temperature control, and UV protection, antimicrobial & self-cleaning fabrics and 3D printing & Al-driven fashion production. India's textile industry is gradually adopting smart textile innovations to cater to international buyers seeking futuristic apparel solutions.

3. Reshoring & Nearshoring Considerations

To reduce reliance on a single country for sourcing, brands are diversifying supply chains by shifting production from China to India, balancing multiple suppliers and nearshoring for faster delivery. Some brands are moving production closer to their home markets, but India remains a top offshore manufacturing hub due to its expertise and competitive costs.

4. Luxury & Premium Apparel from India

India's traditional textiles and handcrafted garments are gaining global recognition in the luxury fashion segment. There is increasing demand for:

- o Handwoven & artisanal textiles for Premium fabrics like Banarasi silk, Chikankari embroidery, Kanjeevaram, and Pashmina.
- Ethical & fair-trade luxury clothing for brands seek exclusive, high-quality products that support artisan communities.

Designer collaborations with Indian weavers – High-end brands are investing in handcrafted, customized Indian textiles.

5. Circular Fashion & Recycling

Sustainable fashion is moving toward a circular economy, emphasizing on recycled polyester & up cycled garments, zero-waste manufacturing and clothing rental & resale markets. Indian manufacturers investing in recycling infrastructure and sustainable production will gain a competitive edge in the global fashion industry.

India remains a key player in both national and international apparel sourcing, driven by its diverse textile heritage, cost-effective production, and evolving market trends. The national market emphasizes affordable pricing, fast fashion, ethnic wear, and sustainability, while the international market demands high-quality standards, ethical sourcing, and bulk production efficiency. A Sourcing Manager plays a crucial role in the apparel supply chain, ensuring that garments, fabrics, trims, and accessories are procured efficiently while meeting both national and international market requirements. Their responsibilities include supplier selection, cost management, quality control, compliance assurance, and aligning sourcing strategies with market trends. A sourcing manager should stay updated on market trends, including fast fashion, sustainable textiles, athleisure, and digital textiles, align sourcing strategies with Make in India initiatives, circular fashion, and consumer preferences. They should as well integrate eco-friendly materials and innovative textile technologies in sourcing decisions. Therefore, a sourcing manager is instrumental in bridging the gap between market demands, supplier capabilities, and industry trends.

2.2.2 Collection of Information Regarding Sourcing Needs for Materials

Sourcing materials for apparel production in India involves gathering detailed information about fabric types, trims, accessories, supplier networks, pricing, quality standards, and market trends. A Sourcing Manager is responsible for gathering and analysing information related to materials, trims, and accessories needed for apparel production. This process ensures that sourcing decisions align with market demands, quality standards, and cost efficiency.

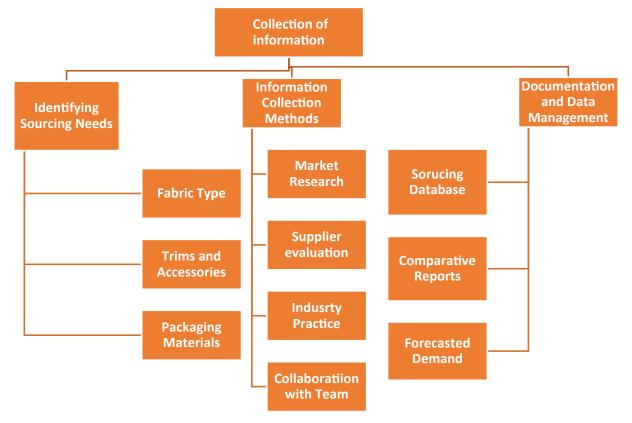


Fig. 2.2.7: Process of collecting information for sourcing

1. Identifying Sourcing Needs:

A Sourcing Manager must gather comprehensive information on key material components. This includes fabric types such as cotton, silk, polyester, rayon, linen, organic fabrics, and sustainable textiles to cater to diverse consumer demands. Additionally, sourcing managers must evaluate trims and accessories like zippers, buttons, elastic, ribbons, embroidery, and branding elements to ensure functionality and aesthetics in garment production. Packaging materials such as labels, tags, hangers, poly bags, and eco-friendly packaging are also essential for branding and retail presentation. Furthermore, adherence to compliance and certification including ISO, OEKO-TEX, GOTS, SEDEX, and Fair Trade is crucial to meet global quality and ethical sourcing standards, ensuring credibility in both domestic and international markets.

2. Information Collection Methods:

Market research and trend analysis play a vital role in understanding domestic and international trends, including fast fashion, sustainable textiles, and athleisure, while also tracking seasonal variations in fabric preferences and production cycles. Supplier and vendor evaluation involves conducting market surveys to identify potential vendors, comparing pricing, production capacity, lead times, and ensuring compliance with ethical and quality standards. Participation in industry and trade fairs such as the India International Textile Machinery Expo and Yarn & Fabric Fair allows

for networking with suppliers, exploring material innovations, and collecting samples for quality assessment. Additionally, factory and mill visits enable sourcing managers to perform on-site audits, verify manufacturing quality, assess production capabilities, and streamline logistics. Lastly, collaboration with internal teams including designers, production teams, and logistics departments ensures material specifications are met, inventory is well-managed, and sourcing aligns with company policies and cost objectives.

3. Documentation & Data Management:

Effective documentation and data management are crucial for a Sourcing Manager to streamline procurement and maintain efficiency in the supply chain. This involves maintaining a sourcing database that records key details such as supplier information, pricing structures, material specifications, and compliance certifications to ensure transparency and traceability. Additionally, creating comparative reports helps in analysing costs, evaluating supplier performance, and making informed decisions on vendor selection. To stay aligned with market demands, the sourcing manager must also update material sourcing plans regularly based on forecasted demand, industry trends, and evolving consumer preferences, ensuring a proactive and strategic approach to procurement.

2.2.3 Market research in various categories of garment

Market research plays a crucial role in the apparel sourcing process as it helps sourcing managers identify consumer demand, pricing trends, supplier capabilities, and material availability. Apparel sourcing managers in India focus on different categories of clothing analysing market trends for both domestic and international consumers. The different categories of garments and its market research strategies have been mentioned in the following:

1. Ethnic & Traditional Wear



Fig. 2.2.8: Traditional Saree

- Market Demand: Strong demand in India and global markets such as USA, UK, UAE due to festivals, weddings, and cultural significance
- Products: Lehengas, Sarees, kurtas, sherwanis, and Indo-western fusion wear
- **Sourcing Trends:** Handloom textiles like Banarasi, Chikankari, Kanjeevaram are sourced and sustainable fabrics, and embroidery-based designs

2. Casual & Fast Fashion Apparel



Fig. 2.2.9: Co-ord sets

- Market Demand: High demand for affordable, trendy, and mass-produced fashion.
- **Key Products:** T-shirts, jeans, dresses, tops, and co-ord sets.
- Sourcing Trends: Rapid production cycles, synthetic & blended fabrics, and digital printing.

3. Sportswear & Athleisure



Fig. 2.2.10: Gym wear

- Market Demand: Growing demand due to fitness trends, yoga culture, and active lifestyles
- **Key Products:** Leggings, track pants, sports bras, compression wear, dry-fit T-shirts
- **Sourcing Trends:** Performance fabrics like moisture-wicking, stretchable, UV-protective, antimicrobial

4. Formal & Corporate Wear



Fig. 2.2.11: Formal blazers

- Market Demand: Popular among professionals, office-goers, and corporate clients.
- **Key Products:** Blazers, trousers, formal shirts, pencil skirts.
- **Sourcing Trends:** Premium suiting fabrics, wrinkle-free & stain-resistant textiles.

5. Luxury & Designer Apparel



Fig. 2.2.12: Embroided designer lehenga

- Market Demand: High-value market catering to premium customers and international brands.
- **Key Products:** Custom couture, embroidered dresses, high-end suits.
- **Sourcing Trends:** Hand-woven fabrics, artisanal embroidery, limited-edition collections.

6. Sustainable & Eco-Friendly Apparel



Fig. 2.2.13: Khadi Outfit

- Market Demand: Rising demand due to environmental concerns and conscious consumerism.
- Key Products: Organic cotton clothing, hemp fabrics, upcycled denim, khadi outfits.
- **Sourcing Trends:** Ethical sourcing, Fair Trade certification, natural dyes, and biodegradable textiles.

7. Kids-wear & Infant Clothing



Fig. 2.2.14: Kids frocks

- Market Demand: Increasing due to growth in nuclear families and premium baby clothing preferences.
- **Key Products:** Rompers, onesies, frocks, cotton shorts, thermal wear.
- Sourcing Trends: Soft, breathable fabrics, hypoallergenic materials, safety-certified trims.

8. Innerwear & Lingerie



Fig. 2.2.15: Shape-wear

- Market Demand: Expanding market driven by brand awareness and comfort preferences.
- **Key Products:** Bras, briefs, shape wear, thermal wear, nightwear.
- Sourcing Trends: Seamless stitching, moisture-wicking fabrics, lace & satin blends.

India's apparel market is highly

diverse, price-sensitive, and trend-driven, catering to both domestic and global buyers. Market research helps sourcing managers stay updated on fabric innovations, pricing strategies, supplier networks, and emerging fashion trends. By leveraging regional strengths and material expertise, sourcing managers can ensure efficient procurement and high-quality apparel production.

UNIT 2.3: Procurement Strategy

Unit Objectives



By the end of this unit, the participants will be able to:

- 1. Discuss the monitor and forecast of levels of demand for sourcing
- 2. Basic mathematical knowledge related to calculate fabrics for procurement
- 3. Identify the organisation's policies related to procurement

2.3.1 Monitoring and Forecasting Upcoming Levels

of Demand

Effective demand monitoring and forecasting are crucial for sourcing managers to ensure a steady supply of materials, optimize procurement costs, and reduce wastage., consumer preferences, and industry reports, sourcing managers can anticipate future demand and make informed sourcing decisions by analysing market trends.



Fig. 2.3.1: Monitoring and forecasting of demands

Methods of Monitoring Demand

1. Market Analysis & Consumer Insights

- Tracking retail sales data, online shopping trends, and customer preferences in different apparel categories.
- Studying the growth of e-commerce platforms like Amazon, Flipkart, and Myntra to identify popular products.
- Analysing fashion influencers, celebrity endorsements, and runway trends to predict demand for new styles.

2. Supplier & Manufacturer Reports

- Regularly communicating with textile mills, fabric suppliers, and garment manufacturers to assess raw material availability.
- Monitoring supplier lead times, production capacities, and inventory levels to avoid procurement delays.

3. Industry & Trade Reports

- Referring to reports from Textile Export Promotion Councils, FICCI, and industry associations for market trends.
- Evaluating global demand shifts based on import-export data and international trade policies.

4. Seasonality & Festive Trends

- Anticipating demand spikes during festivals, wedding seasons, and special sales events (e.g., Diwali, Eid, Christmas).
- Monitoring climatic changes to adjust sourcing strategies for seasonal fabrics like wool, cotton, or rainwear.

5. Competitor & Brand Strategies

- Analysing competitors' product launches, pricing strategies, and sourcing choices.
- Tracking promotional campaigns, discount trends, and new retail partnerships.

Forecasting Demand for Procurement

1. Historical Data & Sales Trends

- Using past sales data to estimate future material and apparel requirements.
- Identifying patterns in fabric consumption, production volumes, and category-specific growth rates.

2. Predictive Analytics & AI Tools

- Implementing machine learning algorithms and demand forecasting software helps to improve accuracy.
- Using Big Data analytics facilitates in detecting upcoming shifts in consumer behaviour.

3. Economic & Market Conditions

- Assessing macroeconomic indicators like inflation, raw material price fluctuations, and global trade policies.
- Adjusting procurement strategies based on import duties, currency exchange rates, and supply chain disruptions.

4. Just-in-Time (JIT) Procurement Planning

- Implementing JIT sourcing strategies to align production with real-time demand.
- Reducing excess inventory and storage costs by procuring materials based on forecasted consumption.

Implementation & Decision-Making for Procurement

Effective procurement planning ensures that raw materials, trims, and accessories are available in the right quantity, at the right time, and at optimal costs. Sourcing managers must align procurement strategies with demand forecasts to prevent stock shortages or excess inventory, both of which can impact production efficiency.

- Assessing Lead Times: It is useful for ensuring that fabric mills and accessory suppliers can meet production timelines.
- Balancing Bulk Procurement vs. Just-in-Time (JIT) Ordering: It is significant for deciding whether
 to stockpile critical materials or procure them closer in order to production time based on demand
 patterns.
- Coordinating with Production Teams: Understanding manufacturing schedules and adjusting sourcing plans accordingly is essential to maintain uninterrupted workflow.

Aligning procurement with demand forecasts ensures smooth production, cost control, and inventory efficiency. By partnering with multiple vendors, leveraging market intelligence, and integrating smart inventory systems, sourcing managers can enhance sourcing accuracy, mitigate risks, and meet market demands seamlessly.

2.3.2 Basic Mathematical Knowledge Required to Calculate Fabrics, Trims and Accessories

A sourcing manager in the apparel industry must have a strong and basic grasp of basic mathematical concepts to estimate material requirements, optimize costs, and ensure accurate procurement. The following are key calculations used in fabric, trims, and accessories sourcing during bulk cost estimation:

Types Formula		
Fabric Cost Calculation Total Fabric Cost=Fabric Required × Price per Meter		
Trim Cost Calculation	Total Trim Cost= (Thread Cost +Button Cost+ Zipper Cost + Elastic Cost) × Total Quantity	
Packaging Cost Calculation	Total Packaging Cost=Total Quantity × Cost per Packaging Unit	
Final Cost Estimation	Total Procurement Cost=Fabric Cost + Trim Cost + Packaging Cost	

Table 2.3.1: Formulas for Bulk Cost Calculations

Basic mathematical calculations help sourcing managers accurately determine material requirements, estimate costs, and optimize procurement processes. Understanding fabric consumption, trims, and accessories calculations ensures efficient sourcing, cost reduction, and minimal wastage. By leveraging these formulas, sourcing managers can make informed purchasing decisions and maintain smooth supply chain operations.

2.3.3 Organisation's Policies Related to Procurement

Procurement policies are essential for sourcing managers to ensure cost efficiency, quality compliance, ethical sourcing, and supply chain reliability in the apparel industry. In India, organizations typically follow structured procurement policies that align with global standards and national regulations. Below are key aspects of procurement policies that sourcing managers must manage:

1. Procurement Planning & Vendor Selection

- Approved Vendor List (AVL): Organizations maintain a list of pre-approved suppliers based on past performance, pricing, quality, and compliance. New vendors undergo a qualification process involving audits, sample testing, and contract negotiations.
- Competitive Bidding & Vendor Selection: Procurement policies require sourcing managers to obtain multiple quotations (RFQs Request for Quotations) to ensure cost-effectiveness. Selection criteria include price competitiveness, lead time, payment terms, compliance, and sustainability standards.



Fig. 2.2.16: Vendors

2. Cost & Budget Control

- **Price Negotiation & Cost Optimization:** Procurement managers negotiate bulk pricing and implement cost-saving strategies while maintaining quality. Policies often include target costing and strategic supplier partnerships for better pricing.
- Purchase Order (PO) Approval Process: Organizations require sourcing managers to generate Purchase Orders (POs), which must be approved by senior management or finance teams based on budget allocations.



Fig. 2.2.17: Purchase Order

3. Quality & Compliance Standards

- Adherence to Quality Standards: Sourcing policies mandate that all materials, fabrics, trims, and accessories meet industry standards such as ISO 9001, OEKO-TEX and GOTS
- Third-Party Testing & Quality Assurance: Fabrics and trims undergo lab testing for durability, shrinkage, colour fastness, and safety standards. Organizations may require certificates of authenticity and compliance before bulk procurement.



Fig. 2.2.18: ISO Logo

4. Ethical & Sustainable Sourcing Policies

- Fair Trade & Ethical Sourcing: Organizations enforce ethical procurement practices, ensuring No child or forced labour, Compliance with minimum wage laws and Safe working conditions in supplier factories.
- Sustainable & Eco-friendly Sourcing: Many brands focus on organic, recycled, and biodegradable fabrics to meet sustainability goals. Organizations implement carbon footprint reduction strategies in the supply chain.



Fig. 2.2.19: Recycled fabrics

5. Inventory & Logistics Management

- Lead Time & Inventory Control: Organizations follow a Just-in-Time (JIT) inventory system to minimize excess stock and reduce costs. Sourcing managers must ensure timely procurement to avoid production delays.
- Logistics & Supplier Relationship Management: Policies focus on efficient supply chain management through multiple supplier partnerships to reduce risks.



Fig. 2.2.20: Apparel Logistics

6. Legal & Contractual Policies

- **Procurement Contracts & Agreements:** Sourcing managers handle long-term supplier contracts including payment terms, Non-Disclosure Agreements (NDAs) and penalty clauses
- Compliance with Indian Trade Regulations: Organizations must comply with government policies such as The Foreign Trade Policy (FTP), GST & Taxation Rules and Labour & Environmental Laws

Non-disclosure Agreement



This Non-discharge Agreement shall become effective on glats (the "Exacution Deter") and is subject to the terms and conditions stated below by and between company name horing registration number processes and represented by full name, authorised Director (the "Enclosing Farry") and full mate. Ohe "Recenting Party"), collectively referred to as the "Various".

IN CONSIDERATION, the Parties will be evaluating discussing, and impointing protected evoperation and contractual relationship, buck discussions will involve the disclosure and contraction of information containing confidential information, which the Discharing Party within to protect from anarchorized disclosure and ma:

- a. CONFIDENTIAL SNFORMATION. During the torus of this Agreement and after things: (32/1932) from the termination, the Parties shall not disclose confidential information under this Agreement. The Parties shall not their best others to prevent the use or disclosers of confidential information. The Parties agrees to keep all confidential information relating to the broisers, including but not limited to body, election and supplier's information, accounting and financial information, activors and data, trade seconds, investigate, bestseen methods, surported plans, marketing, takes information, development projects, all other hosiness individualism that is supplied by the Parties, together with all intellectual property rights which must concerning the above.
- NON-DISCLOSURE, Confidential information shall be kept secret by the Receiving Party and shall not, without the Disclosing Party's prest written consent, be disclosed publicly or to

Fig. 2.2.21: Non-Disclosure Agreements

A well-structured procurement policy ensures cost efficiency, quality control, sustainability, and compliance in apparel sourcing. Sourcing managers play a key role in vendor management, cost negotiation, and supply chain risk mitigation while aligning with the organization's sourcing strategies. By following these procurement policies, companies can maintain profitability, meet market demands, and ensure ethical sourcing practices in the Indian apparel industry.

Summary



- Sourcing plays a vital role in India's garment manufacturing industry, impacting cost, efficiency, and competitiveness.
- India offers a wide range of woven fabrics (natural, synthetic, blended, handloom, and industrial textiles) and knit fabrics (weft knits, warp knits, and specialty fabrics) used across apparel, home furnishings, and industrial applications.
- Functional trims (threads, zippers, buttons, elastics), decorative trims (lace, embroidery, sequins), and accessories (belts, branding labels, packaging materials) enhance garment functionality, aesthetics, and brand identity.
- India is a major supplier of home textiles like bedding, curtains, towels, rugs, and upholstery.
- Sourcing managers must focus on supplier evaluation, eco-friendly materials, and compliance with global standards to remain competitive in international markets.
- Global buyers demand high-quality, ethically sourced textiles with certifications like GOTS, OEKO-TEX, and Fair Trade.
- Sourcing managers play a key role in material procurement, ensuring cost efficiency, compliance, and alignment with market trends.
- Market research across various garment categories including ethnic wear, fast fashion, athleisure, luxury apparel, and eco-friendly clothing helps optimize sourcing and production efficiency.
- Sourcing managers use market analysis, supplier reports, industry data, and predictive analytics to anticipate demand and make informed procurement decisions.
- Basic calculations like fabric cost, trim cost, packaging cost, and final cost estimation are essential for sourcing managers to ensure accurate procurement, minimize costs, and avoid material wastage.
- Organizations implement structured procurement policies, including vendor selection, cost negotiation, quality compliance, ethical sourcing, and Just-in-Time (JIT) inventory control to optimize supply chain efficiency.



Multiple-choice Question:

- 1. Which of the following factors is NOT a key reason for sourcing high-quality raw materials in India's garment industry?
 - a. Cost optimization

b. Fashion trend forecasting

c. Compliance with quality standards

d. Timely availability of raw materials

2. Which type of fabric is commonly used for premium innerwear and luxury loungewear?

a. Canvas fabric

b. Modal & Tencel knit

c. Polyester fabric

d. Denim fabric

3. What is one of the primary factors influencing consumer behaviour in the Indian apparel market?

a. High import duties

b. Affordable pricing

c. Limited fabric availability

d. Lack of digital platforms

4. Which initiative promotes local sourcing and manufacturing in India's apparel sector?

a. Digital India

b. Make in India

c. Start-up India

d. Smart India

- 5. Which of the following is a key method for monitoring demand in the apparel industry?
 - a. Ignoring competitor strategies
 - b. Tracking retail sales data and online shopping trends
 - c. Avoiding market research reports
 - d. Relying solely on historical data

Descriptive Questions:

- 1. Discuss the significance of trims and accessories in garment manufacturing and how they contribute to both functionality and aesthetics.
- 2. Explain the different types of woven fabrics available in India and their applications in various industries, including apparel, home furnishings, and technical textiles.
- 3. Explain the key differences between national and international apparel sourcing requirements.
- 4. How are sustainability influencing India's apparel market and what strategies are manufacturers adopting to meet global eco-friendly standards?
- 5. Describe the key procurement policies organizations follow in the apparel industry to ensure cost efficiency and compliance.

Notes 🗐 -			

Scan the QR codes or click on the link to watch the related videos





https://youtu.be/_p5UjCLK0R0?si=EnJx_BXqyevLYe4R

https://youtu.be/OHmjUCOQXUQ?si=d5mijLLOyZUpB1W9

Types Of Knit Fabric With Name

Trims And Accessories



https://youtu.be/1PnGDmSrV7Q?si=JBNpVQfe8Gqmx9ig

How Trend Research is Done in the Apparel Industry









3. Procurement of Materials as per Garment Design Requirements

Unit 3.1: Negotiation with Suppliers

Unit 3.2: Supply Chain Management



Key Learning Outcomes



By the end of this module, the participants will be able to:

- 1. Explain how to negotiate.
- 2. Negotiate with the supplier to ensure the deal at a competitive price.
- 3. Estimate lead time and the quantity with respect to material procurement.
- 4. Identify the regular material suppliers of the organisation.
- 5. Identify suppliers for materials like fabrics, trims and accessories.
- 6. Evaluate suppliers for the capability of supplying materials with respect to price, quality, quantity, etc.
- 7. Assess, manage and mitigate risks associated with the procurement.
- 8. Perform cost analysis and its benchmark.
- 9. Explain the process of supply chain management.

UNIT 3.1: Negotiation with Suppliers

- Unit Objectives



By the end of this unit, the participants will be able to:

1. Identify the process of negotiation with suppliers

3.1.1 Process of Negotiation

Sourcing managers play a crucial role in ensuring cost-effective procurement while maintaining quality, supplier reliability, and regulatory compliance. The supplier negotiation process is a structured approach that helps businesses obtain the best possible terms and build long-term strategic partnerships. Sourcing managers play a vital role in optimizing procurement processes to ensure cost efficiency, quality assurance, and compliance with regulatory standards. Effective supplier negotiation is not just about securing the lowest price as it involves strategic discussions, risk assessment, long-term partnership building, and value maximization. Below is a step-by-step explanation of the process:

1. Preparation & Research

Before entering negotiations, sourcing managers must thoroughly prepare by understanding their requirements, researching the supplier market, and defining negotiation goals. Key activities include:

- **Understanding Business Needs:** Identifying the exact product or service requirements, including specifications, quality standards, lead time, and cost considerations is required. Additionally, determining expected service levels and any additional after-sales support is needed.
- **Supplier Market Research:** Conducting a comparative analysis of different suppliers, including their capabilities, strengths, and weaknesses is a major activity. Another activity is to evaluate global vs. local sourcing options, considering cost, tariffs, and supply chain risks.
- **Supplier Profiling & Risk Assessment:** Reviewing financial stability, certifications, track records, and past performance of suppliers is essential. Assessing potential supply chain risks such as geopolitical factors, inflation, and currency fluctuations includes in determining the risk level.
- **Defining Negotiation Objectives:** Objective activity is to decide whether the focus is on cost reduction, extended payment terms, improved delivery timelines, better warranties, or all of these. Setting up a clear strategy is a major negotiation activity on which aspects can be flexible and which are non-negotiable.

2. Request for Proposal (RFP) / Request for Quotation (RFQ)

After gathering relevant information, sourcing managers formally invite suppliers to submit quotations or proposals. Key activities include:

- Issue RFPs or RFQs to multiple suppliers to encourage competitive pricing.
- Ensure transparency in communication regarding specifications, quantities, timelines, compliance requirements, and service expectations.
- Evaluate quotations not just on price, but also on total cost of ownership, which includes shipping, taxes, installation, maintenance, and reliability.

3. Initial Supplier Interaction & Shortlisting

Once the proposals/quotations are received, the next step is to screen and shortlist suppliers based on predefined criteria. Key activities include:

- Conduct preliminary discussions to understand supplier flexibility, willingness to negotiate, and additional services they may offer.
- Evaluate responses based on pricing competitiveness, payment terms, quality certifications, previous work history, and geographical advantages.
- Filter out suppliers who do not meet key business criteria such as compliance, reliability, or minimum order quantity.



Fig. 3.1.1: Process of Negotiation with the suppliers

4. Negotiation Strategy Development

A well-planned negotiation strategy is essential to secure the best terms. Key activities include:

- Choose a negotiation approach such as competitive bidding, partnership model and volumebased negotiation
- Identify key bargaining points like Cost Reduction , Flexible Payment Terms, Delivery Schedules and After-Sales Support
- Develop a BATNA (Best Alternative to a Negotiated Agreement) such as an alternative plan in case negotiations fail. This could be another supplier, an alternative product, or renegotiating internal procurement priorities.

5. Negotiation Meeting

After thorough preparation, direct negotiations take place. Key activities include:

- Face-to-face, virtual, or email negotiations depending on supplier location and complexity of the deal.
- Use data-driven negotiations with cost analysis, market trends, and competitor benchmarks to justify demands.
- Be clear but flexible: While cost reduction is crucial, quality, reliability, and future business prospects should also be considered.
- Leverage long-term contracts to negotiate better rates, especially if the business requires recurring orders.
- Ensure a win-win approach so both parties benefit and maintain a healthy working relationship.

6. Agreement Finalization & Contract Drafting

Once both parties agree on terms, a formal contract is drafted to legally bind the agreement. Key activities include:

- Clearly define the agreed terms in writing, including pricing, payment terms, delivery schedule, penalties, SLAs, and dispute resolution clauses.
- Ensure compliance with Indian contract laws, tax regulations (GST, TDS), and government procurement policies.
- Get internal approvals from finance, legal, and senior management before signing.

7. Implementation & Supplier Relationship Management

Once the contract is signed, the sourcing manager must ensure successful implementation and maintain a strong supplier relationship. Key activities involve:

- Monitoring supplier performance against contract terms.
- Tracking quality control and delivery schedules to avoid disruptions.
- Conducting regular supplier evaluations to ensure on-going compliance and reliability.
- Building a long-term relationship with reliable suppliers for preferential pricing and better collaboration.

8. Post-Negotiation Evaluation

Finally, sourcing managers analyse the success of the negotiation to improve future strategies. Key activities are:

- Reviewing whether cost targets, quality standards, and timelines were met.
- Gathering feedback from internal stakeholders on supplier performance.
- Identifying areas for improvement, such as better market research, stronger negotiation tactics, or alternative sourcing strategies.

Effective supplier negotiation in India is a strategic mix of market research, cost analysis, relationship management, and risk mitigation. By following a structured approach, sourcing managers can achieve cost savings, ensure timely deliveries, build long-term as well as reliable supplier partnerships and adapt to changing market conditions and regulatory environments. A balanced and professional negotiation strategy leads to a win-win scenario, strengthening the supply chain and ensuring business continuity.

3.1.2 Regular Material Suppliers of the Organisation

Sourcing managers work closely with regular material suppliers to procure high-quality raw materials while ensuring cost efficiency, supply chain reliability, and regulatory compliance. These suppliers provide essential materials used in garment manufacturing, textile production, and fashion retailing. The selection of suppliers depends on factors like fabric type, production scale, sustainability goals, and pricing competitiveness. Below is a breakdown of the key categories of material suppliers in the apparel industry in India:

1. Fabric Suppliers

Fabric is the primary raw material for apparel production. Indian sourcing managers collaborate with suppliers specializing in:

 Cotton Fabric Suppliers: Sourced from major cotton hubs like Gujarat, Maharashtra, and Tamil Nadu. It is used in casual wear, ethnic wear, and sustainable clothing lines.

Example: Vardhman Textiles, Welspun India, Arvind Limited



Fig. 3.1.2: Vardhman Textiles Logo

• **Synthetic Fabric Suppliers:** This includes polyester, nylon, and viscose fabrics. It is preferred for sportswear, fast fashion, and affordable clothing segments.

Example: Reliance Industries (Vimal), Raymond, Indorama Industries



Fig. 3.1.3: Reliance Industries, Only Vimal

• **Silk Fabric Suppliers:** It has been sourced from Karnataka, Tamil Nadu, and Assam. It is Used in luxury apparel, sarees, and wedding collections.

Example: Karnataka Silk Industries Corporation (KSIC), Nalli Silks, Fabindia



Fig. 3.1.4: FabIndia

• **Denim Fabric Suppliers:** India is a global hub for denim production, with major exports. It is used for jeans, jackets, and casual wear.

Example: Arvind Mills, Nandan Denim, KG Denim



Fig. 3.1.5: Arvind Mills

• Linen & Wool Fabric Suppliers: Linen is sourced for summer wear. Wool is used for winter apparel like coats and sweaters.

Example: Raymond, OCM India, Jaya Shree Textiles



Fig. 3.1.6: Raymond

2. Yarn & Thread Suppliers

Apparel production also relies on high-quality yarn and threads, which are sourced from:

• Cotton Yarn Suppliers: It is used for weaving and knitting lightweight and breathable garments.

Examples: Sutlej Textiles, RSWM Limited, Trident Group



Fig. 3.1.7: Trident Group

• Polyester & Blended Yarn Suppliers: It is preferred for stretchable, durable, and synthetic fabric-based clothing.

Examples: JBF Industries, Indo Rama Synthetics, Century Enka



Fig. 3.1.8: Indo Rama Logo

• **Embroidery & Stitching Thread Suppliers:** It is essential for garment stitching, embroidery, and finishing touches.

Examples: Coats India, Modi Threads, Vardhman Yarns



Fig. 3.1.9: Coats India

3. Trims & Accessories Suppliers

In addition to fabric, apparel manufacturing requires trims and accessories for styling and functionality:

• **Buttons & Zippers:** Buttons and zippers are among the most essential garment components, providing both functional closures and decorative elements. It is used in manufacturing jeans, jackets, shirts, and kids wear.

Examples: YKK India, Talon Zippers, KK Fittings



Fig. 3.1.10: Talon Zippers

• **Elastic & Tapes:** Elastics and tapes add flexibility, comfort, and reinforcement to garments, making them essential for sportswear, lingerie, and casual wear.

Examples: Arihant Elastics, Gold Star Elastics, Pro Tapes and Pioneer Tapes



Fig. 3.1.11: Pro Tapes

• Labels & Tags: Labels and tags are crucial for branding, pricing, and supply chain tracking in the apparel industry. They ensure that each garment is traceable, identifiable, and visually appealing It is used for branding elements for finished apparel products.

Examples: Midas Labels, Meera Enterprises, Shivam Narrow Fabrics

Laces & Embellishments: Laces, embroidery, and embellishments add aesthetic value and
intricate detailing to garments, particularly in ethnic wear, bridal fashion, and luxury designer
collections. It is most commonly found in ethnic wear, wedding dresses, and designer apparel.

Examples: Vardhman Creations, Sanjay Laces, Ajanta Lace House

4. Sustainable & Organic Material Suppliers

Sourcing managers focus on organic and sustainable raw materials with rising consumer demand for eco-friendly fashion:

• **Organic Cotton Suppliers:** Organic cotton is a key raw material in sustainable fashion as it is grown without synthetic fertilizers, pesticides, or genetically modified (GM) seeds. It requires less water than conventional cotton and provides better working conditions for farmers.

Examples: Pratibha Syntex, Suminter India Organics, Chetna Organic



Fig. 3.1.12: Pratibha Syntex

• **Recycled Fabric Suppliers:** Recycling fabric helps reduce textile waste and environmental pollution by reusing discarded materials like PET bottles, old garments, and factory scraps. These fabrics are widely used in sustainable sportswear, casual wear, and fast fashion alternatives.

Examples: Grasim Industries, Banswara Syntex, R|Elan (Reliance Industries)



Fig. 3.1.13: Grasim by Aditya Birla

• Natural Dyes & Eco-friendly Processing Suppliers: The dyeing and finishing process is a major contributor to water pollution in textile manufacturing. To combat this, brands are shifting towards plant-based, biodegradable, and toxin-free dyeing solutions.

Examples: Aranya Natural, Dystar India, NatureTex



Fig. 3.1.14: Dystar India

5. Packaging Material Suppliers

Final apparel products require secure and sustainable packaging before distribution:

• **Corrugated Box & Carton Suppliers:** Corrugated boxes and cartons are widely used for bulk shipments, retail-ready packaging, and e-commerce deliveries.

Examples: Bharat Box Factory, Packman Packaging, TCPL Packaging



Fig. 3.1.15: Bharat Box Factory in Tajpur, India

• **Biodegradable & Recyclable Packaging Suppliers:** With the growing demand for sustainable and eco-friendly packaging, brands are shifting towards biodegradable and recyclable solutions. These materials help reduce the carbon footprint while complying with environmental regulations.

Examples: Packmile, Ecoware India, BioGreen Bags



Fig. 3.1.16: Eco Ware India

• Tags & Barcode Sticker Suppliers: Tags and barcodes play a critical role in supply chain tracking, pricing, and brand identity. Apparel brands require durable, tamper-proof, and aesthetically designed tags for effective product labelling.

Examples: Smart Labels India, Avery Dennison, Wonderpac



Fig. 3.1.17: Smart Labels India

UNIT 3.2: Supply Chain Management

- Unit Objectives



By the end of this unit, the participants will be able to:

- 1. Discuss the process of supply chain management
- 2. Evaluate the suppliers in respect with price, quality and quantity
- 3. Assess the risks during procurement and its mitigation strategies
- 4. Identify the performance cost analysis and its benchmark
- 5. Gain estimation of lead time and quantity that is related to material procurement

3.2.1 Process of Supply Chain Management

Supply Chain Management (SCM)

Supply chain management (SCM) is a critical function for sourcing managers in India, ensuring efficient procurement, cost optimization, quality control, and timely delivery of materials. The apparel, manufacturing, and retail industries heavily rely on well-structured supply chains to maintain seamless production and market competitiveness.

Supply chain managers, especially sourcing managers, play a pivotal role in identifying the right suppliers, negotiating contracts, ensuring quality control, and managing risks to maintain a smooth flow of goods and services. SCM in India is influenced by various factors, including infrastructure, regulatory policies, taxation, technology, and global trade dynamics. A well-managed supply chain is essential for businesses to reduce costs, improve efficiency, and maintain competitiveness. Key components of SCM include:

- Procurement & Supplier Management
- Production & Manufacturing
- Logistics & Distribution
- Warehousing & Inventory Control
- Demand Forecasting & Cost Optimization
- Risk Management & Sustainability

Sourcing Managers are key decision-makers responsible for securing quality materials and services at the best price, ensuring smooth operations within the supply chain. Key Responsibilities of Sourcing Managers includes the following:

- Identifying and selecting reliable suppliers.
- Negotiating pricing and contract term
- Ensuring quality compliance and sustainability
- Managing logistics, warehousing, and inventory
- Monitoring supplier performance and risk mitigation.

Process of SCM Types of Suppliers •Key processes like quantity and lead time Raw Material •Weaving, Dyeing and Pre-treatment Fabric and •Technologies used like Digital Printing Trim **Processing** Pattern Making & Cutting Sewing & Assembly **Production &** Washing & Finishing Manufacturin Inspections Compliance with ISO Quality Control Local Transport Using RFID & GPS tracking Logistics Sales Channels Technology in Retail. Retail

Fig. 3.2.1: Process of SCM

Case Study: Fast Fashion vs. Sustainable Fashion Supply Chain in India:

The fashion industry in India operates under two distinct models, such as fast fashion and sustainable fashion, each with its own approach to production, cost strategy, materials, environmental impact, ethical considerations, target market, and supply chain structure. Below is a detailed comparison of these two models in the Indian context:

	Fast Fashion	Sustainable Fashion
Factor	ZABA	Levi's
Production Speed	They use automated manufacturing, digital design tools, and mass production techniques to produce garments within 2-3 weeks.	These brands operate on longer production timelines of 3-6 months.

Factor	Fast Fashion A B A B A B A B A B A B A B A B A B A	Sustainable Fashion LGVI'S		
		Sustainable brands have higher		
Cost Strategy	Fast fashion brands keep their costs low	production costs		
Materials Used	Fast fashion brands primarily use polyester, nylon, and synthetic blends	Sustainable brands use organic cotton Recycled polyester, plant-based dyes and hand-woven textiles		
Environmental Impact	Fast fashion is one of the biggest contributors to textile waste and pollution	Sustainable fashion brands focus on reducing environmental damage by Using organic fabrics		
Ethical Considerations	Fast fashion brands face criticism for poor working conditions and unfair wages	Sustainable fashion brands emphasize ethical production and social responsibility		

Table. 3.2.1: Fast Fashion VS Sustainable Fashion

India plays a key role in both fast fashion and sustainable fashion supply chains. While fast fashion is affordable, trendy, and fast-moving, it comes with serious environmental and ethical concerns. Sustainable fashion, on the other hand, is ethically and environmentally responsible but faces higher costs and scalability challenges. While fast fashion dominates in affordability and speed, sustainable fashion is gaining traction with growing eco-consciousness. The future lies in balancing speed, cost, and sustainability through hybrid models like Zara's sustainable collections and Levi's eco-friendly denim lines. By integrating technology, ethical sourcing, and circular economy practices, India's apparel industry can reduce environmental impact while maintaining global competitiveness.

3.2.2 Evaluation of Suppliers with Respect to Price, Quantity and Quality

Sourcing managers play a critical role in evaluating suppliers to ensure cost-effective procurement without compromising on quality or quantity. The evaluation process involves assessing key factors such as pricing competitiveness, supply capacity, and product quality to build long-term supplier relationships. Below is a detailed breakdown of supplier evaluation based on price, quantity, and quality:

Price Evaluation

The primary goal of price evaluation is to determine whether a supplier offers cost-effective solutions that align with an organization's budget constraints and cost-saving strategies while maintaining the required level of quality. Since procurement plays a significant role in operational expenses, sourcing managers must ensure that the pricing offered by suppliers is competitive, sustainable, and transparent.

A well-structured price evaluation process enables companies to negotiate better contracts, reduce procurement costs, and optimize supply chain expenses. However, focusing solely on the lowest price can be risky if it compromises quality, reliability, or long-term cost efficiency.

Key Considerations:

- 1. Cost Competitiveness: Sourcing managers must compare supplier prices with market trends, competitor offerings, and industry benchmarks. The goal is to ensure that the supplier is offering fair pricing without overpricing due to monopolistic practices or under-pricing to gain contracts at unsustainable rates. Market research, price indices, and competitor analysis help in understanding standard pricing trends.
- 2. Volume Discounts & Bulk Pricing: Suppliers often offer tiered pricing models where higher order quantities lead to lower per-unit costs. Companies that require large, recurring shipments should negotiate bulk discounts to improve cost efficiency. Long-term contracts with committed order volumes can help secure preferential pricing.
- **3. Hidden Costs:** Beyond the base price of a product, sourcing managers must evaluate additional costs that impact total procurement expenses. This includes freight charges, import/export duties, and customs fees, warehousing and storage and packaging costs.
- **4.** Payment Terms & Credit Facilities: Flexible payment options like Net 30, Net 60, or Net 90 allow buyers to delay payments for a certain period. Suppliers offering credit terms help businesses manage cash flow more efficiently. Advance payment requirements should be negotiated to minimize financial strain.
- 5. Cost vs. Value Analysis: The cheapest supplier is not always the best choice—sourcing managers must assess overall value rather than just price. Factors like durability, product performance, and after-sales support contribute to long-term cost efficiency. A slightly higher price might be justified if it results in fewer defects, lower return rates, or better warranty services.

Methods for Price Evaluation:

Request for Quotation (RFQ)

It allows sourcing managers to compare prices, delivery terms, and additional conditions before making a decision. Some organizations use e-procurement platforms for automated price comparison.

Total Cost of Ownership (TCO) Analysis

It includes factors such as maintenance, defect rates, rework costs, supplier reliability, and operational efficiency. It helps companies avoid suppliers that offer low upfront prices but cause high long-term costs due to poor quality.

Reverse Auctions

A competitive online bidding process where multiple suppliers submit progressively lower bids until the lowest offer is reached. It encourages cost savings but should be balanced with quality assurance. It is best suited for standardized products (e.g., packaging materials, trims, basic fabrics).

Fig. 3.2.2: Methods used

• Request for Quotation (RFQ):

Example: A garment exporter issues an RFQ for 5,000 polyester fabric rolls, specifying fabric GSM, width, dyeing quality, and lead time, and selects the best offer based on pricing and conditions.

Total Cost of Ownership (TCO) Analysis:

Example: A company sourcing industrial sewing machines evaluates TCO by considering not just the machine's price but also repair costs, downtime, spare parts availability, and energy efficiency.

• Reverse Auctions:

Example: A fashion retailer uses a reverse auction platform to source corrugated boxes for packaging, driving down costs by 15% through supplier competition.

Challenges

- Price fluctuations due to market demand and raw material costs.
- Supplier under quoting to win contracts, leading to quality compromises.
- Long-term pricing instability from suppliers reliant on external imports.

Price evaluation is a multifaceted process requiring a balance between cost efficiency, supplier reliability, and quality assurance. Sourcing managers must go beyond just price comparison and assess hidden costs, payment terms, and long-term value to make informed purchasing decisions. By leveraging RFQs, TCO analysis, and competitive bidding, businesses can negotiate better deals and ensure that they are partnering with cost-effective yet reliable suppliers.

Quantity Evaluation

The primary goal of quantity evaluation is to ensure that a supplier can meet the required order volumes consistently, without delays, shortages, or production bottlenecks. A reliable supplier must have the capacity, scalability, and stock management to handle both regular and peak-season demands efficiently.

For sourcing managers, quantity assurance is critical in industries such as apparel, automotive, and FMCG, where supply chain disruptions can lead to production halts, lost sales, and financial penalties.

Key Considerations:

1. Production Capacity: A supplier's ability to meet large-scale production requirements is a crucial factor in selection. Capacity constraints can lead to order delays, affecting business continuity. Factors affecting production capacity includes factory size & machinery availability, number of skilled workers and production as well as automation efficiency

- **2. Lead Time & Delivery Speed:** Lead time refers to the time taken from order placement to final delivery. A supplier must ensure on-time delivery while maintaining quality standards.
- **3. Order Fulfilment Rate:** A high order fulfilment rate (OFR) means the supplier consistently delivers complete orders without shortages. An OFR below 95% is generally considered risky, as it indicates frequent shortages. Industries like fashion and electronics require near-perfect fulfilment rates to avoid stock-outs.
- **4. Scalability:** Suppliers must be able to increase production capacity during peak seasons. Unsalable suppliers may struggle to handle seasonal spikes, leading to lost sales. Evaluating past performance during high-demand periods helps sourcing managers assess scalability.
- **5. Stock Management:** Buffer stock ensures suppliers can handle sudden order increases or supply chain disruptions. Poor inventory planning leads to shortages, delays, and supply chain risks. Ideal suppliers follow a just-in-time (JIT) model while maintaining a safe stock threshold.

Methods Used for Quantity Evaluation:

Site Audits & Factory Visits

On-site evaluation of supplier facilities helps assess actual production capacity. Factory audits focus on manufacturing setup and technology, inventory and warehouse management and workforce efficiency.

Supply Chain Reliability Score

: A quantitative rating system based on historical supplier performance. Metrics that are useful includes on-time delivery rate, order fulfilment percentage and number of delayed or incomplete shipments.

Trial Orders

Before committing to long-term contracts, companies test suppliers with small batch orders. It helps in evaluating production speed accuracy, order completeness as well as the supplier's response to urgent demands

Fig. 3.2.3: Methods used

Site Audits & Factory Visits:

Example: A sourcing manager visits a knitwear factory and finds that out-dated machinery limits production to only 5,000 units/day that is far below the required 10,000 units/day.

• Supply Chain Reliability Score:

Example: An Indian supplier with a 98% fulfilment rate and 99% on-time delivery scores higher than a supplier with frequent delays, helping sourcing managers make data-driven decisions.

• Trial Orders:

Example: A sourcing manager places a trial order of 5,000 polyester fabrics with a new supplier to assess whether they can meet future bulk order requirements.

Challenges:

- Seasonal demand fluctuations affecting supplier inventory.
- Logistics and transportation delays impacting delivery schedules.
- Dependence on subcontractors leading to inconsistencies in supply.

Quality Evaluation

The main goal of quality evaluation is to ensure that suppliers meet predefined quality standards to maintain product integrity, compliance, and customer satisfaction. Poor quality can lead to product defects, high return rates, reputational damage, and financial losses.

Sourcing managers in India's apparel, textile, and manufacturing industries must assess suppliers for consistent quality, regulatory compliance, and long-term reliability before finalizing procurement contracts.

Key Considerations:

- 1. Compliance with Standards & Certifications: Suppliers must adhere to national and international quality certifications to ensure ethical and sustainable production. Certifications validate compliance with health, safety, and environmental standards.
- **2.** Raw Material Quality Assessment: The durability, comfort, and eco-friendliness of raw materials affect the final product's performance.
- **3. Defect Rate & Product Rejection:** Defect rate is the percentage of faulty or substandard products in an order. A high rejection rate indicates poor supplier quality control.
- **4. Consistency in Quality across Production Batches:** A supplier must maintain uniformity across multiple orders. Variations in colour, texture, or stitching can lead to customer dissatisfaction. Ensuring batch-to-batch consistency is crucial, especially for large retailers.
- **5. Testing:** Suppliers should conduct regular quality tests to meet industry standards. Suppliers using automated quality control are more reliable.

Methods Used for Quality Evaluation:

Pre-Production and Post-Production Inspections

Quality checks should be conducted before, during, and after production. Preproduction inspections assess raw material quality before bulk manufacturing. Post-production inspections verify that the final product meets all specifications.

Third-Party Quality Audits

Independent third-party firms like SGS, Intertek, and Bureau Veritas provide unbiased supplier audits. These audits assess manufacturing processes, workplace safety standards and product compliance with international regulations.

Customer Feedback & Market Performance

Past reviews and return rates help assess a supplier's quality track record. High return rates indicate recurring product defects. Customer complaints on product durability signal potential supplier issues.

Fig. 3.2.4: Methods used

Pre-Production and Post-Production Inspections

Example: A sourcing manager orders embroidered ethnic dresses and conducts a mid-production inspection to ensure the embroidery is done correctly before bulk stitching

• Third-Party Quality Audits:

Example: A European retailer sources cotton kurtis from India but requires an SGS audit to confirm the supplier meets EU safety standards before shipment.

Customer Feedback & Market Performance:

Example: A fashion brand finds that its printed T-shirts fade after two washes, prompting a supplier re-evaluation.

Challenges:

- Quality inconsistency due to material variations.
- Supplier non-compliance with safety and environmental regulations.
- Counterfeit raw materials leading to product failure.

After evaluating suppliers based on price, quantity, and quality, sourcing managers use a weighted scoring model to select the most reliable supplier. On-going monitoring includes supplier, performance Scorecards, annual supplier audits and long-term contract negotiations to ensure stable partnerships. By balancing cost efficiency, supply reliability, and quality assurance, sourcing managers in India optimize procurement strategies and ensure seamless supply chain operations.

3.2.3 Estimation of Lead Time and Quantity Related to Material Procurement

For sourcing managers in India, accurate estimation of lead time and quantity is crucial to maintaining smooth supply chain operations, reducing stock-outs, and optimizing inventory costs.

Lead time

Lead time refers to the total duration from placing an order to receiving the materials, impacting the efficiency of the supply chain. It comprises several components, including supplier production time, which is the period required by the vendor to manufacture or prepare the order. Quality inspection time is also crucial, as it includes the time taken for pre-shipment inspections and approvals to ensure compliance with quality standards. Once approved, transit time accounts for transportation and customs clearance, varying based on shipping methods and regulatory factors. Finally, receiving

and warehousing time involves unloading, conducting quality checks, and stocking the materials in inventory before they are ready for use in production.

Factors affecting lead time include:

- Supplier Location: Domestic suppliers have shorter lead times compared to international sources.
- Material Type: Raw fabrics take longer than trims like zippers or buttons.
- **Production Capacity:** Suppliers with low capacity or backlog orders have longer lead times.
- Shipping Method: Air shipments are faster but costlier than sea or road transport.
- Customs & Regulatory Delays: Importing materials may require additional documentation and clearance time.

Estimation of Lead Time Methods:

- **Supplier Historical Data:** Analysing previous delivery timelines from the same supplier is one technique. Additionally, identifying seasonal fluctuations that may affect lead time.
- **Benchmarking Industry Standards:** Compare lead times of different suppliers in the same category. **Example:** Domestic fabric suppliers = 2-3 weeks, Imported organic cotton = 6-8 weeks.
- **Buffer Time Addition:** Add 5-10% additional time for unexpected delays in production, transit, or customs clearance.

Example: If the usual lead time for imported polyester fabric is 30 days, a sourcing manager should plan for 33-35 days.

Quantity Estimation

Quantity estimation is a critical process in procurement that ensures the right amount of raw materials is sourced to maintain production efficiency while minimizing costs. Accurate estimation helps in meeting production targets without experiencing shortages that could lead to delays. At the same time, it prevents overstocking, which can increase inventory holding costs and lead to wastage. Additionally, sourcing managers must account for material wastage that occurs during different stages of manufacturing, such as fabric cutting, dyeing, and finishing, ensuring that the required quantity of raw materials is always available for seamless production.

Factors affecting quantity estimation include:

- Production Plan: The number of garments to be produced dictates raw material needs.
- Material Yield & Wastage Rate: Fabric shrinkage, cutting loss, and defects affect required quantity.
- **Supplier MOQs (Minimum Order Quantities):** Suppliers have order quantity restrictions.
- **Reorder Frequency:** Higher reorder frequency reduces storage costs but increases logistics expenses.

Estimating the Quantity

1. Bill of Materials (BOM) Calculation: A BOM lists all raw materials, trims, and accessories required for a product.

Example: Cotton T-shirt BOM may require 1.3 meters of fabric per unit.

If the order is for 10,000 T-shirts, the estimated fabric required = $1.3 \text{m} \times 10,000 = 13,000 \text{ meters}$.

- 2. Historical Consumption Analysis: Reviewing past order quantities helps in demand forecasting. Example: If previous orders for 5,000 jeans required 7,500 meters of denim, the same ratio can be applied to new production runs.
- **3. Safety Stock Calculation:** It ensures buffer stock to cover unexpected demand surges or supply chain disruptions.

Formula:

Safety Stock= (Max Daily Usage × Max Lead Time) – (Average Daily Usage × Average Lead Time)

4. Supplier MOQ (Minimum Order Quantity) Consideration: If a supplier's MOQ is 1,000 meters but the production requirement is 800 meters, the sourcing manager must decide whether to stock extra or find another supplier.

Best practices for Lead Time and Quantity Estimation are the following:

- **Use Digital Forecasting Tools:** Implement ERP (SAP, Oracle SCM, Infor) to track material usage trends.
- Work with Multiple Suppliers: Have backup vendors to reduce dependency on a single supplier.
- **Negotiate Flexible MOQs & Lead Times:** Long-term contracts can help reduce MOQs and improve delivery timelines.
- Align Procurement with Sales Trends: Monitor sales data to adjust material purchases according to demand shifts.

Sourcing managers must strategically estimate lead time and quantity to maintain an efficient and cost-effective procurement process. Accurate forecasting, supplier coordination, and risk mitigation play a crucial role in ensuring timely material availability and optimal inventory management.

3.2.4 Assessing, Managing and Mitigating Risks During Procurement

Procurement in India's manufacturing, apparel, and textile industries involves complex supplier relationships, fluctuating market conditions, and regulatory challenges. Sourcing managers play a critical role in identifying, assessing, and mitigating risks to ensure smooth procurement operations.

Risks associated during procurement are described below:

Risks	Common Issues	Impact on Procurement
Supplier Risks Supplier risks arise when vendors fail to meet contractual obligations, leading to issues like delayed deliveries, quality defects, or supply chain breakdowns.	 Suppliers may fail to deliver goods on time due to financial instability, lack of capacity, or internal inefficiencies. Raw materials or finished products may not meet required quality standards, leading to rejections and production delays. If a company is dependent on a single vendor, any disruption (e.g., factory shutdown, bankruptcy) can halt operations. 	 It may lead to the following: Production delays due to unreliable delivery schedules. Financial losses from defective or rejected materials. Supply chain instability if a critical supplier fails.

Risks	Common Issues	Impact on Procurement
Price Volatility Risks Price volatility risk refers to unexpected changes in raw material costs due to factors like market fluctuations, currency exchange rates, or geopolitical events.	 High demand for raw materials like cotton, polyester, metal zippers can lead to sudden price surges. Importing materials exposes buyers to exchange rate risks like INR depreciation against USD or EUR Trade restrictions, tariffs, or conflicts (e.g., China-India trade tensions) can disrupt pricing stability. 	 These risks may lead to: Higher production costs reducing profit margins. Unpredictable budgeting leading to financial instability. Potential supplier contract renegotiations causing delays.
Regulatory & Compliance Risks Changes in government policies, taxation, trade laws, or labor regulations can affect procurement operations.	 Fluctuations in Goods and Services Tax (GST) rates or import duties can impact procurement costs. Compliance with Minimum Wage Laws, Fair Trade Standards, and Child Labour Prevention Acts is essential. Sudden changes in import/export policies (e.g., textile export bans) can impact material availability. Bans on hazardous chemicals, waste disposal norms, and carbon footprint reduction targets can affect sourcing choices. 	It may cause issues for procurement due to the following reasons: 1. Legal fines for non-compliance. 2. Increased operational costs due to tax changes or regulatory approvals. 3. Supplier disqualification if they fail to meet compliance norms.
Logistics & Delivery Risks Delays or failures in transportation, warehousing, and distribution can lead to supply chain disruptions.	 Poor road conditions, port congestion, and railway bottlenecks can slow down material movement. Lengthy customs procedures for imported raw materials can hold up shipments. Floods, cyclones, and landslides can halt supply chain operations. COVID-19 lockdowns, labour strikes, and fuel shortages impact logistics networks. 	 It may lead to: Delays in production schedules affecting delivery timelines. Increased transportation costs due to fuel price hikes. Risk of damaged or lost shipments leading to financial losses.
Environmental & Ethical Risks Environmental and ethical risks arise when suppliers engage in unsustainable or unethical practices, such as excessive pollution, labour exploitation, or illegal sourcing.	 Textile production requires high water consumption, leading to environmental concerns. Some suppliers underpay workers or violate fair labour laws. Non-renewable materials and excessive waste generation harm sustainability goals. 	1. Brand reputation damage due to unethical supplier practices. 2. Legal action and fines for sourcing non-compliant materials. 3. Consumer backlash against unsustainable sourcing methods.

Table 3.2.2: Risks during Procurement

Assessing Procurement Risks

Sourcing managers in India must carefully evaluate, manage, and mitigate risks associated with procurement. Sourcing managers in India must conduct thorough risk assessments to ensure supplier reliability, cost stability, legal compliance, logistical efficiency, and ethical sourcing. Below is a detailed breakdown of assessment methods for mitigating procurement risks provided in the figure.



Fig. 3.2.5: Risks associated in Procurement

Supplier Risks

Assessing Methods	Activities	Scenario
Supplier Audits	 Conducting onsite inspections are useful for evaluating supplier manufacturing capacity, infrastructure, and quality control processes. Assess worker conditions, safety standards, and equipment efficiency. Use third-party auditors like SGS, Bureau Veritas, or Intertek for unbiased evaluations. 	An Indian apparel brand switched suppliers after finding that 30% of zippers from a vendor
Financial Stability Evaluation	 Perform credit checks using Dun & Bradstreet reports, bank references, or financial statements. Assess the supplier's past payment history and outstanding liabilities. Review balance sheets, profit margins, and loan dependencies. 	were defective, affecting production timelines and customer satisfaction.

Assessing Methods	Activities	Scenario
Supplier Performance Tracking	 Analysing on-time delivery rates, rejection percentages, and past defect rates is effective. Utilising a supplier scorecard system to rank vendors based on reliability can be done. Evaluating past contract adherence and any previous contract breaches or disputes can be useful for tracking 	

Table 3.2.3: Assessing supplier risks

Price Volatility Risks

Assessment Methods	Activities	Scenario/ Examples
Commodity Market Monitoring	 Track raw material price trends through MCX India, ICAC (cotton industry reports), and government trade bulletins. Analyse global crude oil prices, which impact synthetic fibre costs. Follow currency exchange rate trends to predict imported fabric costs. 	A garment manufacturer sourcing cotton fabric secured
Contract- Based Pricing Strategies	 Lock in prices for highly volatile materials like cotton to prevent unexpected hikes. Use tier-pricing agreements to allow for market-adjusted costs. Some companies hedge against commodity price fluctuations through futures contracts. 	a fixed-price contract before the monsoon season to protect against price hikes due to crop
Historical Price Analysis	 Review supplier price fluctuations over the past 1-3 years to identify patterns and risks. Benchmark supplier prices against industry averages. 	failures.

Table. 3.2.4: Assessing Price Volatility Risks

Regulatory & Compliance Risks

Assessment Methods	Activities	Scenario/ Examples	
Certification & Compliance Verification	 Ensure suppliers comply with ISO (International Standards), GOTS (organic textiles), BIS (Indian Standards), and OEKO-TEX (chemical safety standards). Request audit reports and renewal status of certifications. 	A global retailer	
Government Policy Tracking	 Monitor GST (Goods & Services Tax) changes, export duties, and trade restrictions. Subscribe to government circulars (DGFT notifications, Ministry of Textiles updates) to stay informed. 	sourcing from India ensured that all textile suppliers complied	
Legal & Environmental Audits	 Conduct regular supplier audits to check adherence to labor laws, minimum wage regulations, and workplace safety norms. Partner with legal firms specializing in corporate compliance to review contracts and policies. 	with GST regulations, avoiding cross- border tax penalties.	
	 Check compliance with waste disposal laws and chemical restrictions in textile processing. 		

Table. 3.2.5: Assessing Regulatory and Compliance Risks

Logistics & Delivery Risks

Assessment Methods	Activities	Scenario/ Examples
Supplier Lead Time & Performance Tracking	 Monitor historical delivery timelines and supplier fulfilment rates. Use supplier KPIs such as on-time-in-full (OTIF) delivery rates. 	An Indian apparel exporter mitigated
Multi-Logistics Provider Strategy	Work with multiple shipping companies to reduce	shipment delays by partnering with two logistics firms instead of
Real-Time Shipment Tracking	 Use GPS-enabled tracking systems to monitor fabric shipments. Implement supply chain visibility software like SAP Ariba, Oracle SCM, or Infor Nexus. 	one, ensuring redundancy in case of transport disruptions.

Table. 3.2.6: Assessing Logistics & Delivery Risks

Environmental & Ethical Risks

Assessment Methods	Activities	Scenario/ Examples
Eco-Friendly Supplier Partnerships	 Source from GOTS-certified organic fabric producers and OEKO-TEX-compliant dyeing units. Require third-party verification for sustainability claims. 	A luxury fashion brand discontinued
Ethical Sourcing Audits	 Conduct social compliance audits to ensure fair wages, safe working conditions, and zero child labour. Use frameworks like SA8000 (Social Accountability) and Fair Trade certification. 	business with a supplier after an audit exposed
Supplier Declarations & Transparency Policies	 Require suppliers to sign ethical sourcing agreements. Use block chain-based traceability solutions to track sustainable raw materials from farm to factory. 	child labour practices in an embroidery unit.

Table. 3.2.7: Assessing Environmental & Ethical Risks

Sourcing managers must proactively assess risks in procurement using a mix of audits, performance tracking, legal compliance, and ethical sourcing standards. A structured risk management approach ensures high-quality suppliers, stable pricing despite market volatility, environmental compliance, disruption-free logistics and ethical procurement practices.

Summary



- Supplier negotiation is a structured process involving market research, proposal evaluation, strategic discussions, and long-term partnership building to optimize procurement.
- The negotiation process includes eight key stages, from preparation and RFP issuance to contract drafting, implementation, and post-negotiation evaluation.
- Sourcing managers must assess supplier reliability, financial stability, certifications, and geopolitical risks before negotiations.
- Material suppliers in the apparel industry are categorized into fabric suppliers, yarn & thread suppliers, trims & accessories suppliers, sustainable material suppliers, and packaging suppliers.
- Key supplier companies in India include Vardhman Textiles, Reliance Industries, Raymond, Arvind Mills, and Trident Group, catering to various apparel manufacturing needs.
- Sustainability is a growing focus in sourcing, with demand for organic cotton, recycled fabrics, and eco-friendly dyeing & processing suppliers.
- Effective supplier relationship management ensures long-term benefits, including cost efficiency, better collaboration, and improved supply chain reliability.
- Fast fashion prioritizes speed and affordability but has ethical and environmental drawbacks, whereas sustainable fashion focuses on ethical sourcing, eco-friendly materials, and responsible production practices.
- Techniques such as RFQs, Total Cost of Ownership (TCO) analysis, reverse auctions, factory audits, third-party quality inspections, and customer feedback help in making informed supplier decisions.
- Sourcing managers must assess supplier reliability, price volatility, regulatory compliance, logistics efficiency, and ethical sourcing.
- Accurate estimation of lead time and material quantity is essential for smooth supply chain operations.

Exercise

Multiple-choice Question:

- 1. What is a key activity in the "Preparation & Research" phase of supplier negotiation?
 - a. Issuing purchase orders directly
 - b. Reviewing supplier financial stability and certifications
 - c. Finalizing contract terms
 - d. Conducting post-negotiation evaluation
- 2. Which of the following is a key supplier category in the apparel industry?
 - a. IT Equipment Suppliers

b. Real Estate Developers

c. Fabric Suppliers

d. Pharmaceutical Suppliers

- 3. What is the primary goal of price evaluation in supplier selection?
 - a. To choose the supplier with the lowest price
 - b. To ensure cost-effective procurement without compromising quality
 - c. To eliminate all additional costs like freight charges
 - d. To increase procurement expenses for better reliability
- 4. What is a key challenge in supplier quality evaluation?
 - a. Seasonal demand fluctuations
 - b. Price fluctuations in the market
 - c. Quality inconsistency due to material variations
 - d. Availability of multiple suppliers in the market
- 5. What is one of the key factors affecting lead time in procurement?
 - a. Employee wages

b. Material type

c. Advertising budget

d. Customer reviews

Descriptive Questions:

- 1. Explain the step-by-step process of supplier negotiation and its significance in ensuring cost-effective procurement.
- 2. Discuss the different categories of material suppliers in the Indian apparel industry and their role in garment manufacturing.
- 3. How do sourcing managers ensure compliance with regulations while negotiating supplier contracts?
- 4. Describe three key methods used for price, quantity, and quality evaluation in supplier assessment with relevant examples.
- 5. Explain the different risks associated with procurement in India's manufacturing, apparel, and textile industries.

Notes 🗐 -			

Scan the QR codes or click on the link to watch the related videos





 $https://youtu.be/DPxjSGK_A9E?si=ICL80ZD7IYOg6TFX$

Negotiation Skills

https://youtu.be/R8rYsCmAEEY?si=dVbQzxC751gsw6EY

What is Supply chain Management (SCM)?



https://youtu.be/Nt4_oep3kl4?si=OvgMyMup6kmd2Yvw

What Is Lead Time In The Supply Chain?











Unit 4.1: Types, Relative Value and Exchange Rate of International Currencies

Unit 4.2: Organisation's Preference to Market-related to Procurement



- Key Learning Outcomes 🙄



By the end of this module, the participants will be able to:

- 1. Explain various types, relative value and exchange rates of international currencies.
- 2. Explain various procurement tools and techniques like Tally, MS-Office, etc.
- 3. Analyse the organization's preference for market-related to procurement.
- 4. Analyse supply chain management, logistics and business administration.
- 5. Analyse the cost and budget requirements.
- 6. Identify the standard lead time of the organisation.

UNIT 4.1: Types, Relative Value and Exchange Rate of International Currencies

- Unit Objectives



By the end of this unit, the participants will be able to:

- 1. Discuss the types of relative and exchange rate
- 2. Identify the factors that affects the exchange rate within the sourcing

4.1.1 Relative Value and Exchange Rate

Relative value and exchange rate are crucial factors in sourcing decisions, especially for businesses operating in international trade. When making sourcing decisions, businesses consider multiple factors, including cost-effectiveness, supplier reliability, and financial risks. Two key aspects that influence these decisions are Relative Value and Exchange Rate. These concepts help companies optimize procurement strategies, control costs, and maintain supply chain efficiency.

Relative Value in sourcing:

Relative Value in sourcing refers to the comparative worth of a product, service, or supplier based on its overall benefits rather than just its price. It assesses the balance between cost, quality, reliability, efficiency, and long-term benefits to ensure the best value-for-money procurement.

The key aspects in relative value in sourcing include the following:

Total Cost of Ownership (TCO): The purchase price alone does not determine value; companies
must also consider indirect costs such as transportation, maintenance, repairs, taxes, and customs
duties.

Example: An Indian apparel brand like Raymond may source premium wool from Australia at a lower unit price. However, higher shipping costs, customs duties, and currency fluctuations may increase the total cost of ownership compared to sourcing wool domestically or from nearby countries like New Zealand.

Supplier Reliability and Reputation: A lower-cost supplier may not be valuable if they fail to deliver
on time or provide inconsistent quality.

Example: A European fashion brand sourcing garments from Tiruppur (Tamil Nadu), India's textile hub, may consider multiple suppliers. While some offer lower prices, brands like Aditya Birla Fashion may prioritize suppliers with ethical labour practices and consistent quality over cost savings to maintain their reputation in global markets.

• **Product Quality and Performance:** Higher-quality materials or well-crafted products can reduce failure rates, warranty claims, and customer complaints.

Example: FabIndia, a premium Indian ethnic wear brand, may prefer using hand-woven organic cotton from certified suppliers rather than cheaper synthetic alternatives. This ensures higher durability, reduces returns due to defects, and enhances customer satisfaction.

- **Strategic Business Fit:** Some suppliers may provide additional services such as research and development (R&D), technical support, or integrated logistics, enhancing their value.
 - **Example:** Myntra, an online fashion retailer, may choose a supplier that provides end-to-end production services, including design consultation and logistics, rather than just manufacturing garments.
- **Scalability and Flexibility:** The ability of a supplier to adjust production volumes, meet urgent demands, or customize products can add value beyond cost savings.
 - **Example:** Zudio, owned by Tata Group, sources apparel from different Indian manufacturers. During peak demand periods like Diwali or End-of-Season sales, it relies on local manufacturers who can scale production quickly, rather than depending on slower international suppliers.

Relative value ensures that sourcing decisions are made based on overall benefits rather than just cost, leading to long-term savings, improved efficiency, and reduced operational risks.

Exchange Value in Sourcing:

The Exchange Rate in sourcing refers to the value of one currency compared to another and how fluctuations in exchange rates impact the cost of importing or exporting goods and services. Exchange rate volatility can increase or decrease procurement costs and influence sourcing decisions based on currency strength.

The key aspects in exchange value in sourcing include the following:

- **Currency Volatility and Pricing Fluctuations:** Exchange rate fluctuations can cause unpredictable price changes, making long-term contracts riskier.
 - **Example:** Arvind Ltd., a leading Indian textile company, exports denim to the U.S. If the Indian Rupee depreciates against the US Dollar, Arvind's exports become cheaper and more competitive, increasing its profits. However, if the rupee strengthens, its earnings in INR decrease.
- Impact of Currency Strength on Sourcing Costs: When a company's home currency appreciates, imports become cheaper. When the home currency depreciates, imported goods become more expensive.
 - **Example:** Pantaloons (owned by Aditya Birla Group) imports luxury fabrics from Europe. If the INR depreciates against the Euro, import costs rise, leading to higher apparel prices. However, if INR appreciates, importing high-quality materials becomes cheaper.
- Hedging Strategies to Manage Exchange Rate Risks: Businesses use financial instruments to protect
 themselves from currency fluctuations. Common methods include forward contracts, currency
 options and natural hedging.
 - **Example:** Shahi Exports, one of India's largest apparel manufacturers, exports garments to Europe and the U.S. To manage currency risks, it uses forward contracts to lock in exchange rates and protect itself from rupee depreciation.
- Currency Diversification and Multi-Currency Transactions: Some companies diversify sourcing across multiple countries to reduce dependency on one currency.
 - **Example:** Madame (a women's fashion brand) exports clothing to multiple countries (USA, UK, and UAE). By receiving payments in multiple currencies (USD, GBP, AED), it reduces dependency on any single exchange rate fluctuation.

• **Sourcing Location Decisions Based on Exchange Rates:** Companies may shift sourcing to countries with more favourable currency exchange rates to maintain cost efficiency.

Example: W (by TCNS Clothing Co.) previously imported fabrics from China. However, due to INR depreciation and rising Chinese costs, it has shifted sourcing to Bangladesh and Vietnam, where currency exchange rates are more favourable.

Exchange rates directly influence the cost of international sourcing. Businesses must consider currency fluctuations, employ risk mitigation strategies, and adjust their sourcing locations based on favourable exchange rate conditions.

4.1.2 Factors Affecting Exchange Rate and Its Impact on Sourcing

The exchange rate is the value of the Indian Rupee (INR) relative to other currencies like the US Dollar (USD), Euro (EUR), or Chinese Yuan (CNY). Fluctuations in exchange rates impact the cost of imports and exports, influencing sourcing decisions for Indian businesses. A strong INR benefits importers by making foreign goods cheaper, while a weak INR benefits exporters by making Indian goods and services more competitive in global markets. The key factors affecting the INR exchange rate along with real-world examples have been mentioned below:

- Demand and Supply of Foreign Currency: The exchange rate is driven by demand and supply in the
 foreign exchange market. If more people or businesses want to buy USD (or other foreign currency)
 than sell INR, the rupee weakens (depreciates). If more people sell USD and buy INR, the rupee
 strengthens (appreciates).
 - **Example:** Suppose Indian businesses import semiconductor chips from Taiwan. If chip demand rises and India buys more chips in USD, demand for USD increases, causing INR depreciation. If foreign investors put money in Indian start-ups (like Flipkart or Paytm), they need INR to invest, increasing INR demand and strengthening it.
- 2. Inflation Rate in India: Lower inflation makes a country's goods/services more competitive globally, increasing demand for its currency. Higher inflation erodes the purchasing power of the currency, making it less attractive to investors and causing depreciation.
 - **Example:** If inflation in India rises to 8% while the US inflation is 3%, Indian goods become expensive, reducing exports and demand for INR. If inflation in India is lower than China, Indian exports become more attractive, increasing INR demand.
- **3. Interest Rates & RBI Monetary Policy:** Higher interest rates attract foreign investments because investors get better returns, increasing INR demand and appreciation. Lower interest rates reduce foreign investments, causing INR depreciation.
 - **Example:** In 2022, RBI increased interest rates to attract investors and control inflation, strengthening the INR.
 - Source: https://www.rbi.org.in/commonman/english/scripts/PressReleases.aspx?Id=3356#: $^{\sim}$:text=On%20the%20 basis%20of%20an,per%20cent%20with%20immediate%20effect.
- 4. Foreign Direct Investment (FDI) & Foreign Portfolio Investment (FPI): When foreign companies set up businesses or factories in India, they bring in USD, which is converted to INR, strengthening the rupee. Foreign investors buying Indian stocks, bonds, or real estate increases demand for INR.
 Example: In 2020 (COVID-19), foreign investors withdrew \$16 billion from Indian markets, leading to INR depreciation from USD 26 billion to USD 16 billion.

Source: https://www.hindustantimes.com/business-news/foreign-investors-pull-out-16-billion-from-india-due-to-covid-19/story-rX85Gp3KrQEnXX28ahHPOL.html

5. Trade Deficit such as Imports and Exports: If India imports more than it exports, demand for USD increases (to pay for imports), causing INR depreciation. If India exports more, demand for INR increases, strengthening its value.

Example: The domestic currency in India has depreciated over 4 % since the value of 83.19 on January 1 last year. This depreciation of the Rupees against US dollars is providing benefits in exporting due to higher import contents in the global market.

Source: https://economictimes.indiatimes.com/news/economy/foreign-trade/rupee-depreciation-yields-limited-benefits-for-exporters-experts/articleshow/117205855.cms?from=mdr

6. Crude Oil Prices: India imports 80% of its crude oil, so rising oil prices increase demand for USD, weakening INR. Lower oil prices reduce import costs, strengthening INR.

Example: In 2022, oil prices surged due to the Russia-Ukraine war, causing INR to fall.

Source: https://indianexpress.com/article/explained/russia-ukraine-war-india-inflation-7788806/

7. Global Economic and Political Factors: If the US raises interest rates, investors move money from India to the US, weakening INR. If the US lowers interest rates, INR strengthens as investors look for better returns in India. Moreover, Geopolitical tension like wars, trade conflicts, or global recessions reduce investor confidence affects exchange rates.

Example: The Russia-Ukraine war (2022) raised global oil prices, weakening INR by almost 800 paisa.

Source: https://timesofindia.indiatimes.com/business/india-business/one-year-of-russia-ukraine-war-how-the-conflict-impacted-indian economy/articleshow/98214568.cms#: $^{\sim}$:text=In%20the%20year%20since%20the,11%25%20%2D%2D%2Dpoorest%20since%202013.

The exchange rate of the Indian Rupee (INR) is shaped by multiple economic, financial, and geopolitical factors, including supply and demand for foreign currencies, inflation, interest rates, foreign investments, trade deficits, crude oil prices, and global events. Stronger rupee benefits importers by making foreign goods and raw materials cheaper, while a weaker rupee helps exporters by making Indian goods and services more competitive in global markets. Government policies, RBI interventions, and macroeconomic stability play a crucial role in maintaining a balanced exchange rate. Given India's reliance on oil imports, foreign capital inflows, and global trade, managing these factors effectively is essential for economic growth, investment attractiveness, and financial stability. Moving forward, India's ability to boost exports, attract FDI, and reduce dependence on costly imports will determine the rupee's long-term strength and stability in the global economy.

Impact on Sourcing

Exchange rate fluctuations significantly influence the cost and competitiveness of sourcing raw materials, machinery, and technology from global markets. A depreciating rupee makes imports more expensive but benefits exporters by making Indian goods cheaper for foreign buyers. Conversely, an appreciating rupee reduces import costs but makes exports less competitive. The exchange rate changes impact various industries in India that has been described below in the table:

Types	Impact	Apparel Companies Affected	Examples/Real-life scenario
	Increased Cost of Imported Raw Materials	Raymond, Arvind Ltd., Bombay Dyeing Mac Bombay Dyeing	These companies import premium wool from Australia and cotton from the U.S. If the rupee depreciates against the AUD/USD, fabric costs increase, affecting margins.
	Higher Costs for Imported Machinery and Technology	Page Industries (Jockey India), Rupa & Co., Lux Industries PAGE INDUSTRIES LIMITED JOCKEY Speeda	These companies rely on imported textile machinery from Germany and Italy. A weak rupee raises the cost of upgrading production lines
Import-Dependent Industries	Rising Costs of Synthetic Fabrics and Dyes	Aditya Birla Fashion & Retail (Pantaloons, Van Heusen, Allen Solly) ADITYA BIRLA FASHION AND RETAIL LIMITED POPULAR FASHION BRANDS Allen Solly Acquir	Many synthetic fabrics, polyester, and dyes are sourced from China and Taiwan. Rupee depreciation increases procurement costs.
	Higher Costs for Imported Fashion Accessories	FabIndia, Global Desi (House of Anita Dongre) global desi	These brands import high-end zippers, buttons, and embellishments from Europe. A weaker rupee makes these accessories more expensive.

Туреѕ	Impact	Apparel Companies Affected	Examples/Real-life scenario
Export-Dependent Industries	Increased Competitiveness in Global Markets	Shahi Exports, Orient Craft, Gokaldas Exports ORIENT CRAFT	These large apparel exporters benefit from a weaker rupee, as their garments become cheaper for international buyers in the U.S. and Europe, boosting sales.
	Higher Revenue for Indian Exporters	Welspun India (home textiles), Trident Group WELSPUN WELSPUN INDIA	These companies export towels, bed-sheets, and apparel to global brands like Walmart, Target, and IKEA. A weaker rupee increases earnings in INR when revenue is received in USD.
	Expansion into New Markets Due to Cost Advantage	Tiruppur and Ludhiana-based textile manufacturers like KPR Mills Ltd	Many SME garment exporters from Tiruppur (Tamil Nadu) and Ludhiana (Punjab) gain more foreign orders when the rupee is weak, as their products become cheaper globally.
	Hedging Strategies to Manage Currency Risk	Madura Fashion & Lifestyle (owned by Aditya Birla Group)	To avoid losses from rupee appreciation, major exporters hedge currency risks using forward contracts to lock in exchange rates.

Table 4.1.1: Impacts of Exchange Rate in sourcing

The exchange rate plays a crucial role in sourcing costs and business profitability in India. A strong INR benefits import-dependent industries by lowering costs of raw materials, fuel, and components, making production cheaper. However, it hurts exporters by making Indian goods more expensive in global markets. Conversely, a weak INR benefits exporters like IT, textiles, and pharmaceuticals by increasing rupee revenue but raises import costs, leading to inflation. To manage currency risks, Indian businesses use hedging strategies like forward contracts, currency diversification, and natural hedging. In the long run, India's ability to boost exports, attract FDI, and stabilize the rupee will determine its competitiveness in global trade.

UNIT 4.2: Organisation's Preference to Market-related to Procurement

Unit Objectives



By the end of this unit, the participants will be able to:

- 1. Discuss the various procurement tool and techniques used
- 2. Identify the supply chain management, logistics and business administration
- 3. Identify the cost and budget for sourcing
- 4. Discuss the standard lead time for an organisation to sourcing

4.2.1 Various Procurement Tools and Techniques

In a competitive and dynamic market, organisations use various tools and techniques during procurement to optimize sourcing, reduce costs, ensure quality, and improve supplier relationships. These tools help businesses streamline procurement processes, enhance efficiency, and mitigate risks. Below is a detailed breakdown of various procurement tools and techniques used in sourcing.

Procurement tools

Procurement technology has evolved significantly, allowing businesses to streamline sourcing processes, enhance supplier management, reduce costs, and improve compliance. Companies leverage digital tools to improve decision-making and automate procurement workflows, ensuring efficiency, transparency, and cost-effectiveness. Below is an in-depth look at major procurement tools used in India.

1. Enterprise Resource Planning (ERP) Systems: ERP systems integrate and centralize procurement, finance, inventory, and supplier data in real time. They help businesses automate workflows, track purchase orders, manage contracts, and optimize costs.

Case Study: ABFRL, one of India's largest branded fashion and retail companies, such as owner of brands like Louis Philippe, Van Heusen, Allen Solly, and Peter England, has implemented SAP S/4HANA to manage its extensive supply chain.

- Tracks supplier performance and optimizes vendor selection.
- Automates purchase approvals, reducing procurement delays.
- Integrates real-time inventory data for better material planning.



Fig. 4.2.1: ERP system

2. E-Procurement Platforms: E-procurement platforms are cloud-based digital systems that automate purchasing, supplier management, and bid approvals. They help organizations reduce paperwork, enhance procurement efficiency, and improve supplier negotiations.

Case Study: Raymond Ltd., India's leading fabric and apparel manufacturer, digitized its procurement process using GEP SMART to ensure better supplier collaboration and cost control. Raymond benefits from the e-procurement through the following aspects:

- Eliminates manual procurement paperwork, reducing processing time.
- Enhances supplier negotiations using digital bidding tools.
- Improves transparency with real-time procurement reporting.



Fig. 4.2.2: E-Procurement Platforms

3. Supplier Relationship Management (SRM): SRM software helps organizations maintain strong supplier relationships, track performance, ensure contract compliance, and evaluate risks. Effective SRM systems improve procurement efficiency and reduce supply chain disruptions.

Case Study: Arvind Limited, a leading denim and textile manufacturer supplying to global brands, uses Oracle SCM (Supply Chain Management) for supplier performance tracking and contract management.

- Evaluates supplier quality based on timely deliveries and defect rates.
- Tracks contract compliance; ensuring suppliers adhere to ethical sourcing standards.
- Enhances supplier collaboration, preventing production bottlenecks.



Fig. 4.2.3: SRM activities

4. Software Spend Analysis & Cost Management Tools: Spend analysis tools analyse procurement expenses, identify cost-saving opportunities, and optimize supplier negotiations. They help businesses make data-driven sourcing decisions.

Case Study: Shahi Exports, India's largest apparel manufacturer, uses Zycus Spend Analysis to optimize procurement costs and manage supplier contracts efficiently.

- Identifies bulk purchase opportunities to secure fabric discounts.
- Tracks spending across different raw materials to control unnecessary costs.
- Reduces supplier dependency by diversifying sourcing partners.



Fig. 4.2.4: Zyrus Spend analysis

5. E-Auction & Reverse Auction Tools: E-auctions and reverse auctions enable businesses to obtain the best pricing by allowing suppliers to bid against each other in real time. Reverse auctions are commonly used to drive down procurement costs.

Case Study: Welspun India, a leading manufacturer of home textiles and garments, uses SAP Ariba's reverse auction feature to procure cotton, dyes, chemicals, and packaging materials at competitive prices.

- Invites multiple fabric and raw material suppliers to bid for large orders.
- Secures competitive pricing as vendors bid against each other.
- Enhances procurement efficiency by reducing negotiation time.

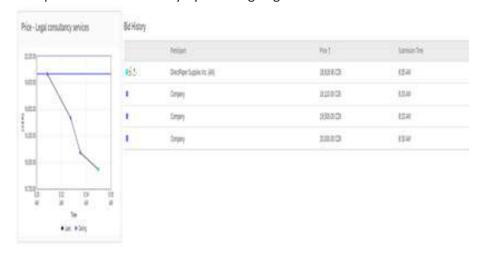


Fig. 4.2.5: Example of a SAP Ariba's reverse auction tool

Procurement tools and technologies have revolutionized the sourcing process by increasing efficiency, enhancing transparency, and reducing costs. Indian enterprises, including Tata Motors, Reliance Industries, Maruti Suzuki, Indian Railways, and Hindustan Unilever, leverage ERP systems, e-procurement platforms, e-auctions, SRM software, and spend analysis tools to optimize procurement strategies. As digital transformation continues, businesses must adopt Al-driven and cloud-based procurement solutions to stay competitive in a dynamic market.

Procurement techniques

Procurement techniques play a crucial role in helping businesses select the right suppliers, negotiate better contracts, and maintain cost efficiency. By adopting strategic procurement methods, organizations can enhance supply chain resilience, optimize costs, and ensure consistent product quality. Below is an in-depth explanation of key procurement techniques along with Indian industry examples.

Strategic Sourcing: Strategic sourcing is a long-term, data-driven approach to procurement that
focuses on developing strong supplier relationships, improving cost efficiency, and optimizing
the supply chain. Instead of making ad-hoc purchases, companies analyse spending patterns,
assess supplier capabilities, and negotiate long-term contracts to achieve cost savings and quality
assurance.

Case Study: Aditya Birla Fashion & Retail (ABFRL)

Aditya Birla Fashion & Retail (which owns brands like Louis Philippe, Van Heusen, and Pantaloons) follows a strategic sourcing model by partnering with select textile manufacturers for a consistent supply of high-quality fabrics. They work with suppliers in India, Bangladesh, and Vietnam to ensure raw material availability while maintaining cost efficiency.



Fig. 4.2.6: ABFRL

2. Total Cost of Ownership (TCO) Analysis: TCO analysis goes beyond the initial purchase price by evaluating the total lifecycle cost of a product, including procurement, maintenance, operational and disposal costs. It helps companies make cost-effective sourcing decisions by analysing long-term financial impacts.

Case Study: Raymond

Raymond, a leading Indian textile and apparel company, uses TCO analysis when purchasing highend wool for its premium suiting fabrics. Instead of selecting the cheapest supplier, Raymond considers logistics, durability, environmental impact, and maintenance costs before making sourcing decisions.



Fig. 4.2.7: Raymond

3. Global Sourcing: Global sourcing involves procuring raw materials, components, or finished products from international suppliers to gain access to high-quality products at competitive prices. Businesses opt for global sourcing to enhance cost savings, increase supply chain flexibility, and access advanced technology.

Case Study: Reliance Retail (Trends, AJIO)

Reliance Retail, which operates Reliance Trends and AJIO, sources fast fashion apparel from China, Bangladesh, and Vietnam to reduce costs. By importing fabrics and accessories from these global suppliers, the company ensures competitive pricing while maintaining quality standards.



Fig. 4.2.8: Reliance Trends

4. Sustainable & Green Procurement: Sustainable procurement focuses on environmentally friendly, ethical, and socially responsible sourcing practices. Businesses following green procurement prioritize energy-efficient, recyclable, and low-carbon-footprint materials while ensuring ethical labour practices.

Case Study: ITC Limited (Wills Lifestyle & John Players)

ITC Limited's fashion brands, Wills Lifestyle and John Players, source organic cotton and sustainable fabrics to reduce their environmental impact. They ensure their suppliers follow ethical labour practices and minimize water and chemical usage in textile production.



Fig. 4.2.9: Wills Lifestyle of ITC company

5. Dual Sourcing Strategy: A dual sourcing strategy involves procuring materials from multiple suppliers instead of relying on a single vendor. This approach helps businesses mitigate supply chain risks, negotiate better pricing, and ensure supply continuity in case of disruptions.

Case Study: Arvind Limited

Arvind Ltd., a leading Indian textile and apparel company, sources denim fabric from both local and international suppliers. By using domestic suppliers (e.g., Tamil Nadu, Gujarat) and international suppliers (Turkey, Italy, Bangladesh), Arvind Ltd. ensures uninterrupted production of denim jeans and fashion apparel while reducing risks like shipment delays or fabric shortages.



Fig. 4.2.10: Arvind Store

6. Just-in-Time (JIT) Procurement: Just-in-Time (JIT) procurement is a lean inventory management technique where companies source raw materials or components only when needed, thereby reducing storage costs and minimizing wastage. This technique requires efficient supplier coordination and precise demand forecasting.

Case Study: Zara

Zara, a global fashion retailer, follows a JIT procurement strategy, sourcing raw materials and fabric only when required for new designs. Instead of maintaining large stocks of fabric, Zara procures in small batches, allowing them to rapidly adapt to changing fashion trends. This ensures minimal waste and faster turnaround times.



Fig. 4.2.11: Zara Company

The apparel industry must adopt the right procurement techniques to remain competitive in an evolving market. Strategic sourcing helps secure long-term supplier relationships, while JIT procurement minimizes storage costs. Techniques like TCO analysis ensure cost efficiency, and global sourcing provides access to premium fabrics at lower costs. As sustainability becomes a priority, green procurement is gaining traction, and dual sourcing helps mitigate supply chain risks. By adopting these strategies, Indian fashion brands and global retailers can enhance supply chain efficiency, reduce costs, and ensure ethical sourcing in apparel production.

4.2.2 Supply Chain Management, Logistics and Business Administration

Efficient sourcing and procurement are essential for businesses to maintain a competitive edge. These functions are closely tied to Supply Chain Management (SCM), Logistics, and Business Administration, ensuring seamless operations and cost-effectiveness.

SCM

Supply Chain Management (SCM) is a critical function in procurement that ensures raw materials, components, and finished products flow smoothly from suppliers to end customers. A well-optimized SCM strategy enhances cost efficiency, minimizes risks, and improves supplier relationships, leading to better procurement decisions and business performance.

A Sourcing Manager plays a crucial role in (SCM) by ensuring efficient supplier selection, cost-effective procurement, and risk mitigation. Their role is essential in maintaining smooth operations, optimizing inventory, and managing supplier relationships to achieve long-term cost savings and business efficiency.

Supply Chain Management (SCM) is the end-to-end coordination of sourcing, procurement, production, warehousing, and distribution to ensure efficient delivery of goods and services. It involves the following activities:

- 1. Selecting and managing suppliers to maintain quality and cost competitiveness.
- 2. Optimizing inventory levels to prevent overstocking or shortages.
- 3. Minimizing risks and disruptions in supply chain operations.
- 4. Reducing procurement and logistics costs for operational efficiency.
- 5. Leveraging technology for better visibility into supplier performance and logistics tracking.

A well-integrated SCM strategy helps businesses adapt to market fluctuations, supply chain disruptions, and cost pressures while maintaining seamless procurement operations.

The key role of SCM during procurement among sourcing managers include:

Role	Plan and activities	Examples
Identifying and Selecting Suppliers	 Evaluating global and domestic suppliers based on cost, quality, reliability, and compliance. Negotiating contracts to secure favourable pricing and terms. Building long-term relationships with key vendors. 	Aditya Birla Fashion & Retail Ltd. (ABFRL) maintains strategic relationships with textile manufacturers like Vardhman Textiles and Arvind Limited to ensure bulk discounts and uninterrupted supply.

Role	Plan and activities	Examples
		FASHION & RETAIL
Inventory Optimization	 Ensuring raw materials and components arrive on time without excess inventory. Working closely with logistics teams to reduce lead times and warehousing costs. Implementing demand forecasting to align procurement with production needs. 	Zara's Fast Fashion Model uses Al-driven demand forecasting to predict fashion trends and adjust fabric procurement accordingly.
Risk Management in Procurement	 Identifying potential supply chain disruptions (e.g., geopolitical issues, inflation, and supplier bankruptcy). Developing contingency plans such as dual sourcing or securing alternative suppliers. Ensuring suppliers comply with regulatory and environmental standards. 	H&M's Sustainable Sourcing Strategy includes materials like organic cotton and recycled fabrics from multiple suppliers in India, Bangladesh, and Vietnam to mitigate supply chain disruptions.
Cost Control & Efficiency	 Conducting Total Cost of Ownership (TCO) analysis before making procurement decisions. Negotiating bulk purchasing discounts to lower per-unit costs. Reducing expenses by sourcing from cost-effective regions (e.g., procuring auto parts from China instead of Europe). 	Reliance Trends' Cost Optimization Approach Implements automated procurement tracking systems to monitor cost variations and optimize purchasing decisions.

Table 4.2.1: Role of SCM

Case Study: Aditya Birla Fashion

Aditya Birla Fashion & Retail Ltd. (ABFRL) is one of India's largest apparel companies, managing brands like Louis Philippe, Van Heusen, Allen Solly, Pantaloons, and Peter England. The company operates a vast supply chain that sources raw materials, manages procurement, and ensures efficient logistics.

In the highly competitive Indian fashion industry, ABFRL's sourcing managers play a key role in maintaining a cost-effective, sustainable, and resilient supply chain.



Fig. 4.2.12: ABFRL Suppliers and Partners

- ABFRL works with both domestic and international suppliers to procure fabrics, dyes, accessories, and trims.
- The company follows a JIT procurement model to minimize inventory holding costs and reduce wastage.
- ABFRL ensures supply chain resilience by sourcing from multiple regions to mitigate risks like price volatility, trade restrictions, and supplier failures.
- ABFRL reduces procurement costs through bulk purchasing and long-term supplier contracts.
- The company has adopted green procurement strategies, sourcing organic cotton and recycled polyester to meet sustainability goals.
- It partners with Better Cotton Initiative (BCI) farmers in India to procure ethically sourced cotton for its fashion brands.
- The company maintains a dual sourcing strategy, procuring essential raw materials like denim from both India (Nandan Denim) and Bangladesh (Pacific Jeans).
- ABFRL uses Al-powered demand forecasting to predict fashion trends and adjust sourcing volumes, preventing excess inventory build-up.

Logistics

Logistics in apparel sourcing refers to the management of transportation, warehousing, and distribution of raw materials and finished garments from suppliers to manufacturers, retailers, and customers. Efficient logistics ensures timely delivery, cost control, and product quality maintenance. Given India's vast geographical spread and export-oriented textile industry, robust logistics networks are critical for success in apparel sourcing.

- 1. Inbound Logistics: Inbound logistics deals with the movement of raw materials such as cotton, dyes, threads, synthetic fibres, and fabrics from suppliers to garment manufacturers. Key Activities in Inbound Logistics include:
 - Raw Material Procurement: Sourcing cotton from Gujarat, silk from Karnataka, and synthetic fibres from Maharashtra.
 - **Transportation:** Using road, rail, and air freight to transport fabrics and accessories (buttons, zippers, etc.) to garment factories.
 - **Customs & Import Management:** Managing imported raw materials (such as specialty fabrics and dyes) from China, Bangladesh, and Europe.

Example: Raymond sources premium wool from Australia and transports it via air and sea freight to its manufacturing plants in India.



Fig. 4.2.13: Raymond Logistics Handling Solutions

- **2. Outbound Logistics:** Outbound logistics focuses on the transportation and delivery of finished apparel from factories to retail outlets, wholesalers, and e-commerce warehouses. Key Activities in Outbound Logistics involves:
 - Factory-to-Retail Transport: Moving garments from production hubs (Tiruppur, Bengaluru, Ludhiana) to shopping malls, department stores (Pantaloons, Reliance Trends), and franchise outlets.
 - **E-commerce Warehousing & Fulfilments:** Online fashion brands store inventory in regional distribution centres to enable quick deliveries.
 - **Export Logistics:** Handling documentation and shipping for garment exports to markets like the US, UK, and UAE.

Example: Myntra

Myntra manages outbound logistics by using multi-city warehouses to enable same-day and next-day delivery for major fashion brands.



Fig. 4.2.14: Myntra

- **3. Reverse Logistics:** Reverse logistics involves handling product returns, defective items, and unsold inventory to ensure cost efficiency and sustainability. The key activities includes:
 - **Customer Returns Handling:** Processing apparel returns from e-commerce platforms like Amazon, Flipkart, and Ajio.
 - Recycling & Reuse: Unsold inventory is repackaged or recycled to minimize waste.
 - Factory Rejects & Damage Control: Managing defective garments through repair, resale, or disposal.

Example: H&M India has a garment recycling program that collects old clothes from customers and recycles them into new textiles.



Fig. 4.2.15: H&M logistics

Case Study: Flipkart

Flipkart, one of India's largest e-commerce platforms, has built a strong supply chain to ensure efficient apparel delivery across India. As one of India's largest e-commerce platforms, Flipkart has built a robust and technology-driven supply chain to efficiently manage the sourcing, storage, and distribution of apparel across the country. With a large customer base, Flipkart must ensure fast deliveries, efficient inventory management, and seamless returns processing to remain competitive in the Indian fashion e-commerce space.



Fig. 4.2.16: Flipkart Logo

- Flipkart operates dedicated fashion fulfilment centres in key locations such as Bengaluru and Hyderabad. These warehouses ensure that fashion inventory is stocked closer to major demand hubs, reducing transit time and delivery costs. For instance, During Flipkart's Big Billion Days Sale, these warehouses handle massive order volumes, ensuring fast deliveries to millions of customers.
- Flipkart leverages Artificial Intelligence (AI) and Data Analytics to manage apparel inventory
 efficiently. The system tracks shopping trends, customer preferences, and seasonal demands to
 ensure optimum stock levels at warehouses. For example, If Nike running shoes are trending in
 North India, Flipkart's AI system ensures increased stock availability in warehouses near Delhi and
 Jaipur, reducing delivery time.

- To enhance delivery speed, Flipkart has partnered with local courier services and gig-economy workers (such as part-time delivery agents). This allows Flipkart to offer same-day and next-day delivery options in major cities. As an example, A customer in Mumbai orders a Nike T-shirt. Instead of shipping from Bengaluru, Flipkart dispatches the product from its Mumbai fulfilment centre, ensuring 1-day delivery.
- With apparel being one of the highest-return categories in e-commerce, Flipkart has invested heavily
 in reverse logistics management to ensure hassle-free returns and exchanges for fashion products.
 For instance, A customer in Kolkata returns a pair of Adidas sneakers due to size issues. Flipkart's
 reverse logistics system quickly processes the return and refunds the amount while ensuring the
 product is available for resale.

Flipkart has revolutionized apparel logistics in India by optimizing inventory, speeding up deliveries, and simplifying returns management. The company's Al-powered demand forecasting, strategically located warehouses, hyper local delivery partnerships, and robust reverse logistics have made it a leader in fashion e-commerce. As the Indian e-commerce market continues to grow, Flipkart's tech-driven supply chain innovations will further enhance customer satisfaction, ensuring faster deliveries, lower costs, and a seamless shopping experience.

On a concluding note, logistics is essential since it makes sure that both raw materials and completed clothing are transported effectively along the supply chain when it comes to procuring clothing in India. Reverse logistics handles returns and waste minimization, outbound logistics concentrates on prompt client delivery, and inbound logistics guarantees timely fabric supply. Logistics efficiency is impacted by issues including expensive transportation, lengthy customs procedures, and ineffective last-mile delivery. To enhance logistics in the Indian clothing sector, businesses like Flipkart, Myntra, and H&M are utilizing automation, technology, and supply chain innovations. Reducing expenses, speeding up delivery, and maintaining competitiveness in India's burgeoning fashion market all depend on optimizing logistics.

Business Administration

Business administration in apparel procurement involves strategic decision-making to optimize supplier selection, cost management, contract negotiations, and operational efficiency in the fashion supply chain. Effective procurement management ensures cost savings, quality control, and timely delivery, which are crucial for a competitive edge in the apparel industry. A Sourcing Manager plays a crucial role in ensuring that raw materials and finished apparel are sourced cost-effectively, efficiently, and sustainably while maintaining quality standards. The key activities of business administration in apparel sourcing include the following:

1. Supplier Relationship Management (SRM) in apparel sourcing:

Supplier Relationship Management (SRM) is the systematic approach to managing interactions with key fabric manufacturers, garment producers, and raw material suppliers to ensure long-term business partnerships and cost-effective sourcing. The role of sourcing manager in business administration in SCM includes:

- **Selecting and Vetting Suppliers:** The sourcing manager evaluates potential fabric suppliers based on quality, cost, lead time, and reliability.
- **Negotiating Bulk Discounts:** By building strong supplier relationships, they negotiate preferential pricing for bulk orders.
- **Ensuring Supplier Compliance:** They monitor supplier compliance with sustainability and ethical sourcing policies, ensuring adherence to labour laws and environmental regulations.
- **Risk Mitigation:** The sourcing manager identifies alternative suppliers to mitigate risks from supply chain disruptions (e.g., raw material shortages or geopolitical issues).

Example: Arvind Ltd., one of India's largest textile manufacturers, has long-term partnerships with premium denim suppliers. Their sourcing managers negotiate bulk deals for high-quality denim fabric at competitive prices, ensuring steady material supply for their production units.

- 2. Cost Control & Budgeting in Apparel Sourcing: Cost control and budgeting involve monitoring expenses related to fabric procurement, production, and logistics. Sourcing managers analyse costs at every stage to ensure procurement aligns with financial goals. The key activities of a sourcing manager include:
 - **Setting Procurement Budgets:** They define budgets for raw materials, trims, dyes, and production processes based on market trends.
 - TCO (Total Cost of Ownership) Analysis: Instead of focusing only on purchase price, they consider transportation costs, import duties, storage, and wastage to make informed decisions.
 - **Negotiating Cost-Effective Sourcing Options:** They analyse global vs. local sourcing to determine the most cost-efficient option.
 - **Reducing Waste & Overproduction:** By using data-driven demand forecasting, they minimize over-ordering and reduce excess inventory storage costs.

Example: Fabindia, a leading Indian ethnic wear brand, controls costs by sourcing organic cotton from local Indian farmers instead of importing from international suppliers. This decision reduces logistics expenses, import duties, and lead times, making their supply chain more cost-effective.

- **3. Technology & Digitalization in Apparel Procurement:** Technology adoption in procurement involves ERP (Enterprise Resource Planning), Al-driven forecasting, and e-procurement platforms to enhance efficiency, cost savings, and supplier management. The role of a sourcing manager in business administration during apparel procurement in technology includes the following:
 - **Implementing ERP Systems:** They integrate procurement, inventory, and supplier databases to streamline ordering and avoid stock shortages.
 - **Al-Driven Demand Forecasting:** They use Al tools to predict which fabrics and apparel styles will be in demand, ensuring the right stock is procured in advance.
 - **E-Procurement Platforms for Automation:** Digital procurement platforms help automate supplier selection, price comparisons, and order approvals, reducing manual work and errors.
 - **Real-Time Supplier Tracking:** Through digital dashboards, sourcing managers track order status, lead times, and quality control reports in real time.

Example: Reliance Retail, India's largest retail chain, uses SAP Ariba, a cloud-based procurement solution, to digitally manage its apparel supply chain. This system automates vendor selection, tracks order fulfilment, and reduces procurement costs through data-driven insights.

A Sourcing Manager plays a critical role in ensuring that apparel procurement is efficient, cost-effective, and aligned with business goals. Through strong supplier relationships, strategic cost control, and digital transformation, they optimize sourcing operations, improve supply chain resilience, and maintain profitability. As India's apparel industry grows, sourcing managers will continue to leverage technology and data analytics to drive smarter procurement decisions.

4.2.3 Cost and Budget Requirements

A Sourcing Manager in the apparel industry is responsible for cost planning, budget allocation, and expense optimization to ensure that raw materials, production, and logistics expenses align with the company's financial goals. Apparel sourcing involves multiple cost components, and effective budgeting helps maintain profitability while ensuring quality and timely delivery.

Key cost components that need to be considered by the sourcing manager in apparel procurement include the following:

Raw Material Costs: This means the price of fabrics, trims, dyes, and accessories needed for apparel production. Factors on which material cost depends during procurement include:

- Global cotton and polyester prices (affected by supply, demand, and climate conditions).
- Import duties on fabrics sourced internationally.
- Bulk purchase discounts from long-term suppliers.

Example: Raymond Ltd. sources premium wool for suits. The sourcing manager negotiates bulk discounts with Australian wool suppliers to optimize costs.



Fig. 4.2.17: Raymond store

Manufacturing & Labour Costs: These are expenses related to cutting, sewing, embroidery, finishing, and packaging of garments. Factors associated to manufacturing costs that affect the procurement include the following:

- Factory wages in India (minimum wages vary by state).
- Energy costs for production units.
- Technology investments in automated sewing machines.

Example: Shahi Exports, a leading Indian garment manufacturer, reduces costs by investing in automated stitching machines, increasing production efficiency.



Fig. 4.2.18: Shahi Exports

Logistics & Transportation Costs: These are costs related to shipping raw materials to factories and finished garments to distribution centres, retailers, and customers. Factors that affect logistics costs involve:

- Fuel prices: Higher fuel costs increase shipping expenses.
- Port congestion and customs duties for international shipments.
- Last-mile delivery costs for e-commerce brands.

Example: Myntra, a fashion e-commerce platform, optimizes costs by using regional warehouses to reduce delivery distance and costs.



Fig. 4.2.19: Myntra office

Import Duties & Tariffs: These are the taxes imposed on importing raw materials, fabrics, or finished apparel. Factors affecting the tax costs and tariffs include:

- Government policies and trade agreements (e.g., India's trade relations with China, Bangladesh, and Vietnam).
- Duty-free benefits for certain eco-friendly materials.

Example: Aditya Birla Fashion & Retail sources premium fabric from Italy but pays high import duties. To reduce costs, they shift sourcing to Indian textile mills.



Fig. 4.2.20: Aditya Birla Fashion & Retail textile mill

Quality Control & Compliance Costs: These are the costs associated with inspections, audits, testing, and meeting international safety standards. Factors affecting quality control costs include:

- Compliance with ISO, GOTS (organic certification), and SEDEX (ethical sourcing standards).
- Third-party product testing fees for international brands.

Example: Fabindia spends extra on organic cotton certification to meet international sustainability standards, attracting premium buyers.



Fig. 4.2.21: FabIndia Organic cotton initiative

4.2.4 Standard Lead Time of the Organisation

A Sourcing Manager in India's apparel industry must manage lead times efficiently to ensure timely production and delivery while minimizing delays. Lead time refers to the total time taken from order placement to final delivery of raw materials or finished apparel. The factor that affects the apparel industry depends on various factors such as supplier location, raw material availability, production capacity, and logistics efficiency. The factors have been broadly classified below:

- Type of Sourcing
- Raw Material Procurement Time
- Manufacturing & Production Lead Time
- Quality Control & Testing
- Logistics & Shipping Lead Time

Sourcing Stage	Example for Domestic Sourcing	Example for International Market	Domestic Sourcing Lead Time	International Sourcing Lead Time
Fabric Procurement	Raymond takes 6 weeks to manufacture a batch of formal shirts from raw fabric to finished apparel.	Fabindia requires 10-12 weeks for handcrafted handloom sarees, considering manual weaving and dyeing time.	3-6 weeks	8-12 weeks
Trims & Accessories	Arvind Ltd. sources denim fabric locally in 3-4 weeks, while importing premium Italian wool takes 8+ weeks.	Shahi Exports sources zippers from YKK India in 2 weeks, but if imported from Japan, it takes 6 weeks.	2-3 weeks	5-6 weeks
Quality Control & Testing	Van Heusen follows AQL (Acceptable Quality Level) inspections, taking 1-2 weeks for fabric and stitching approvals.	Myntra tests kids' apparel for OEKO-TEX certification, taking 3 weeks for lab approvals.	4-8 weeks	8-12 weeks
Shipping	A shipment from Tiruppur to Mumbai reaches in 5 days via road transport.	Aditya Birla Fashion & Retail exports apparel to the US, with shipping & customs clearance taking 5-6 weeks.	3-7 days	4-6 weeks

Table 4.2.2: Standard Lead Time Chart

Sourcing Manager can opt for strategies such as the following for reducing lead time in apparel sourcing:

Strategies	Examples/Real Life Scenarios		
	Reliance Retail selects long-term fabric suppliers to reduce raw material procurement time.		
Localized Sourcing for Faster Deliveries	Reliance burns.		

Strategies	Examples/Real Life Scenarios
Strategies	Biba sources cotton from Gujarat instead of China,
Digital Procurement & Al-Based Demand Forecasting	reducing fabric lead time by 5-6 weeks.
Parallel Processing of Fabric, Trims & Accessories	Myntra uses Al-driven inventory management to place orders in advance, reducing delays. Maya Al-powered interactive chatbot
Vendor Management & Supplier Consolidation	Shahi Exports orders zippers & buttons simultaneously with fabric, cutting procurement time by 2-3 weeks.

For an Indian apparel Sourcing Manager, lead time management is crucial to ensure on-time production and delivery. The total lead time ranges from 2.5 to 7 months, depending on whether the sourcing is domestic or international. By leveraging strategic vendor partnerships, local sourcing, digital procurement, and parallel processing, sourcing managers can minimize delays and enhance supply chain efficiency.

Summary



- Relative Value in Sourcing considers not just price but factors like Total Cost of Ownership (TCO), supplier reliability, product quality, and scalability, helping businesses achieve cost-effectiveness and long-term benefits.
- Key Factors Affecting INR Exchange Rate include foreign currency demand-supply, inflation, RBI monetary policy, FDI, trade deficit, crude oil prices, and global economic conditions.
- Apparel brands relying on imports face higher costs due to INR depreciation, while exporters benefit as their products become cheaper in global markets, increasing competitiveness and revenue.
- Identification Friend or Foe (IFF) Protocol helps security personnel differentiate between authorized and unauthorized individuals or vehicles, ensuring operational efficiency and safety.
- Threat assessment and risk anticipation are crucial for identifying and addressing potential security threats before they escalate into critical situations.
- Security challenges during vehicle escorting and cash transport include risks of ambush, unscheduled stops, and surveillance breaches, which require strict planning, coordination, and vigilance.
- Effective incident reporting and evidence preservation ensure proper documentation of security breaches, assisting in legal procedures and improving future security measures.
- Lead time management is crucial in ensuring timely production and delivery, with factors such as supplier location, production capacity, and logistics efficiency playing key roles.
- Sourcing managers can use strategies like localized sourcing, Al-driven forecasting, and supplier consolidation to reduce lead times and optimize procurement processes.
- Effective budgeting and cost optimization help apparel companies balance expenses while maintaining product quality and meeting delivery deadlines.

Exercise

Multiple-choice Question:

- 1. Which of the following is NOT a key factor in determining the relative value in sourcing?
 - a. Total Cost of Ownership (TCO)

b. Supplier Reliability and Reputation

c. Employee Turnover Rate

- d. Product Quality and Performance
- 2. How does a depreciating Indian Rupee (INR) affect Indian exporters?
 - a. Makes Indian exports more expensive for foreign buyers
 - b. Reduces earnings in INR when revenue is received in USD
 - c. Makes Indian exports cheaper, boosting competitiveness
 - d. Reduces the demand for Indian goods globally
- 3. Which of the following best describes the purpose of the Identification Friend or Foe (IFF) protocol?
 - a. To monitor radio communications between security personnel
 - b. To differentiate between authorized and unauthorized personnel or vehicles
 - c. To store digital records of firearm usage
 - d. To document workplace safety regulations
- 4. Which of the following factors affect raw material costs in apparel sourcing?
 - a. Import duties on fabrics sourced internationally
 - b. Factory wages in India
 - c. Last-mile delivery costs
 - d. Compliance with ISO standards
- 5. What strategy can a Sourcing Manager use to reduce lead time in apparel procurement?
 - a. Increasing import duties on premium fabrics
- b. Relying solely on international suppliers
- c. Implementing AI-based demand forecasting
- d. Eliminating quality control measures

Descriptive Questions:

- 1. Explain the concept of Total Cost of Ownership (TCO) in sourcing and provide an example of how it impacts sourcing decisions.
- 2. Discuss how exchange rate fluctuations influence sourcing decisions in import-dependent and export-dependent industries, with relevant examples.
- 3. Explain the importance of proper incident reporting in security operations. What key details should be included in an incident report?
- 4. What strategies can a sourcing manager use to minimize lead times?
- 5. Discuss the key cost components involved in apparel procurement and explain how they impact overall sourcing decisions.

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What is Logistics Management?







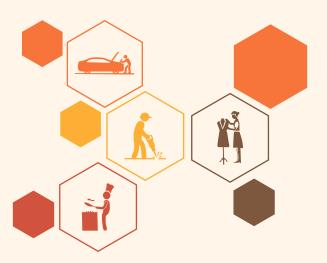




5. Procure Materials from National and International Suppliers Related to Fabrics, Trims and Accessories

Unit 5.1: Procurement Materials from Suppliers

Unit 5.2: Preparation of a Supplier Contract



APPAREL MADE-UPS HOME FURNISHING SECTOR SKILL COUNCIL

- Key Learning Outcomes

By the end of this module, the participants will be able to:

- 1. Evaluate the logistic constraints related to procurement.
- 2. Ensure that a proper supplier contract is prepared to cover important aspects such as returns, payment terms etc.
- 3. Compare suppliers on various index defined in a matrix like supplier capability, lead time, cost, quality, potential to future needs etc. to seek a reliable supplier-buyer partnership.
- 4. Follow-up with the supplier for delivery.
- 5. Ensure that the materials are delivered on time as per the supplier contract in the right quantity, quality etc.

UNIT 5.1: Procurement Materials from Suppliers

Unit Objectives



By the end of this unit, the participants will be able to:

- 1. Discuss the logistics constraints related to procurement
- 2. Compare the various suppliers based on the different index in a matrix

5.1.1 Logistics Constraints Related to Procurements

One of the biggest drivers of the Indian economy, the apparel sector is also vital to the world's fashion and textile sectors. However, sourcing managers in this industry have considerable logistical challenges when acquiring raw materials and completed goods. Product quality, cost effectiveness, and production schedules all depend on effective procurement. However, issues like supply chain interruptions, traffic jams, legal restrictions, inconsistent suppliers, and shifting prices make it difficult to guarantee a smooth material flow. Additionally, the increasing demand for sustainable and ethical sourcing adds another layer of complexity to procurement strategies. Addressing these logistics constraints is essential for apparel companies to enhance operational efficiency, meet market demands, and remain competitive in an evolving global landscape. Below is a detailed elaboration of these logistics constraints

1. Supply Chain Disruptions

The common supply chain disruptions are the following:

- Raw Material Delays: The availability of raw materials like cotton, synthetic fibers, and fabrics
 fluctuates due to various external factors such as unpredictable weather patterns, government
 policies, and trade restrictions.
- **Global Dependencies:** India's apparel industry heavily relies on imported fabrics and accessories from China, Bangladesh, and Vietnam. Trade restrictions, diplomatic tensions, and shipping delays can disrupt the supply chain.
- **Seasonal Demand Variability:** The Indian apparel market experiences seasonal peaks, such as festive seasons (Diwali, Eid) and wedding seasons, leading to increased demand and supply chain congestion.

2. Transportation & Logistics Challenges

Common issues in transportation and logistics are the following:

- **Inland Transport Issues:** India's road infrastructure, fuel price volatility, and interstate regulatory barriers create delays in raw material transportation.
- Port Congestion & Shipping Delays: India's major ports, such as Nhava Sheva (Mumbai) and Chennai, often experience congestion due to high import/export volumes, causing customs clearance delays and increased logistics costs.
- Limited Cold Storage for Special Fabrics: Temperature-sensitive materials like silk, wool, and
 organic cotton require specialized storage, but India lacks adequate cold storage infrastructure
 for textile raw materials.

3. Supplier Management Issues

• **GST** and **Taxation Issues:** India's complex Goods and Services Tax (GST) structure affects procurement costs and efficiency, as different tax slabs apply to fabrics, garments, and accessories.

Example: Textile businesses in Tiruppur struggled with the fluctuating GST rates on man-made fiber, impacting procurement costs and pricing strategies.

Import Restrictions & Duties: High import duties on fabrics, especially luxury textiles and technical fabrics make procurement expensive for apparel brands relying on imported materials.
 Example: Import duties on specialized sportswear fabrics from Taiwan increased procurement costs for Indian active-wear brands like HRX and Puma India.



Fig. 5.1.1: Active-wear by HRX

• Sustainability & Ethical Sourcing Regulations: Growing consumer awareness and government regulations push apparel brands toward sustainable sourcing, but compliance with environmental laws increases procurement complexity.

Example: Fast fashion brands operating in India, such as H&M, had to adapt their sourcing strategies to meet sustainability norms, affecting supplier selection and costs.



Fig. 5.1.2: H&M sustainable sourcing

4. Regulatory & Compliance Constraints

- Quality Inconsistencies: Inconsistent quality in locally sourced fabrics leads to rejections, wastage, and reordering, which delays production.
- **Lead Time Uncertainty:** Delays in fabric production or finishing processes affect the overall garment manufacturing schedule.
- Minimum Order Quantity (MOQ) Constraints: Small and emerging brands struggle to meet the large MOQs required by textile manufacturers, limiting their sourcing options.

5. Technology & Infrastructure Gaps

• **Limited Digitalization:** Many small and mid-sized suppliers still rely on manual processes, causing inefficiencies in tracking procurement orders and deliveries.

• **ERP & Inventory Management Challenges:** Fragmented IT systems among suppliers and manufacturers lead to poor inventory visibility, affecting demand forecasting.

6. Cost & Pricing Volatility

- **Fluctuating Raw Material Costs:** The cost of cotton, polyester, and dyes fluctuates due to market trends, affecting procurement budgets.
- Logistics Cost Inflation: High fuel prices, labour shortages, and freight rate surges increase logistics costs for procurement.
- **Currency Exchange Risks:** The apparel industry's reliance on imported fabrics and accessories exposes it to forex fluctuations, affecting procurement costs.

The Indian apparel industry faces multiple logistics constraints in procurement, impacting efficiency, cost, and lead times. From raw material delays and transportation bottlenecks to regulatory hurdles and price volatility, sourcing managers must navigate a complex landscape to ensure smooth operations. To mitigate these challenges, companies can adopt digital procurement systems, build strong supplier relationships, invest in local sourcing alternatives, and develop contingency plans for supply chain disruptions. Addressing these issues is crucial for enhancing India's position as a global leader in apparel manufacturing and exports.

5.1.2 Comparison of Suppliers on Various Index in a Matrix

Sourcing managers in the Indian apparel industry evaluate suppliers based on various key indices to ensure quality, cost efficiency, and reliability. A Supplier Evaluation Matrix comparing suppliers on multiple criteria such as price, quality, lead time, compliance, flexibility, and sustainability have been provided below:

Criteria	Supplier A (Local Manufacturer)	Supplier B (Large Domestic Mill)	Supplier C (Imported Supplier - China/ Vietnam)	Supplier D (Sustainable Supplier - India)
	***	***	**	**
Cost Efficiency	(Low cost, local sourcing)	(Competitive pricing)	(High cost due to import duties)	(Premium pricing for sustainability)
	**	***	***	***
Quality Consistency	(Varies batch to batch)	(High quality, certified)	(Global standards, consistent)	(Eco-friendly, but limited fabric options)
				**
Lead Time	**** (Fastest, local availability)	*** (Moderate lead time)	** (Longer due to shipping delays)	(Specialized materials take longer)
	*	***	***	**
MOQ (Minimum Order Quantity)	(Low MOQ, flexible)	(Medium MOQ, negotiable)	(Bulk orders required)	(Higher MOQ due to premium fabrics)

Criteria	Supplier A (Local Manufacturer)	Supplier B (Large Domestic Mill)	Supplier C (Imported Supplier - China/ Vietnam)	Supplier D (Sustainable Supplier - India)
Compliance (GST, Customs, etc.)	**** (Easier, domestic)	**** (Standardized processes)	* (High import duties, customs clearance delays)	**** (Fully compliant, sustainability certifications)
Sustainability Practices	* (Basic environmental norms)	** (Some sustainable options)	* (Not always eco- friendly)	**** (Certified sustainable, organic materials)
Flexibility in Custom Orders	**** (Highly flexible)	*** (Moderate)	** (Limited due to standardization)	*** (Customizable but costly)
Risk Factor (Supply Chain Stability)	**** (Low risk, local)	*** (Moderate risk)	* (Higher risk due to geopolitical factors)	*** (Moderate, depends on material sourcing)
Technology & Digitalization	** (Limited tracking systems)	**** (ERP & inventory visibility)	**** (Advanced tech, real-time tracking)	*** (Moderate tech adoption)

Table 5.1.1: Supplier Matrix Comparison

Ranking base:

- ****-Excellent
- ****-Good
- ***-Satisfactory
- **-Average
- *-Poor

Based on important procurement criteria, the Supplier Comparison Matrix offers sourcing managers a systematic assessment of the various supplier types that are accessible. Due to local availability, local manufacturers (Supplier A) provide the quickest and most economical lead times; nevertheless, they may experience inconsistent quality and a limited adoption of new technologies. Large domestic mills (Supplier B) are a dependable option for mid-range clothing businesses because they balance competitive pricing, excellent quality standards, and consistent compliance procedures. It is difficult to work with imported suppliers from China and Vietnam (Supplier C) because of increased import duty prices, longer lead times, and geopolitical dangers. To match procurement strategies with corporate goals, sourcing managers must prioritize suppliers according to supply chain stability, risk factors, sustainability goals, and cost effectiveness. Each supplier type has trade-offs.

UNIT 5.2: Preparation of a Supplier Contract

Unit Objectives



By the end of this unit, the participants will be able to:

- 1. Analyse the supplier contract in regard to returns and payments terms
- 2. Discuss the follow-up with the supplier
- 3. Discuss the quantity and quality of materials in supplier contract

5.2.1 Supplier Contract with Regards to Returns and Payment Terms

A supplier contract, also known as a vendor agreement or procurement contract, is a legally binding agreement between a buyer such as an apparel brand or manufacturer and a supplier. Supplier contracts are essential for expediting the procurement process, reducing risks, and guaranteeing the financial stability of both suppliers and purchasers in the Indian apparel business. These agreements provide clear expectations, minimize disagreements, and shield companies from losses brought on by faulty products, interrupted supply chains, and unstable finances. Payment terms and return policies, which differ according to supplier type, order volume, and negotiated conditions, are some of the most important provisions in these contracts. Key elements of a supplier contract include:

- Pricing & Payment Terms
- High-quality standards
- Adequate returns and refund policies
- Minimum Order Quantity (MOQ)
- Adherence to compliance and legal requirements
- Timely Delivery and lead time maintenance

A well-defined supplier contract enables sourcing managers to manage inventory efficiently, maintain product quality standards, and optimize cash flow. Given the dynamic nature of the Indian apparel industry where raw materials, textiles, and finished garments often involve both local and international suppliers having structured agreements in place is essential. These agreements not only enhance business relationships but also ensure compliance with regulatory and trade norms.

Return Policies

Supplier contracts' return policies specify the circumstances under which excess, non-compliant, or faulty merchandise may be returned. These regulations are essential for controlling procurement risks, guaranteeing product quality, and upholding positive supplier-buyer interactions. Return policies differ greatly depending on the type of supplier, the quality of the material, and the amount of the order because the Indian garment sector works with a wide range of suppliers, from domestic and local mills to foreign and sustainable suppliers. The key factors of returns policy typically include the following factors:

1. Defective Goods Return

This policy covers items that fail to meet quality expectations due to manufacturing defects, material flaws, incorrect sizing, or colour discrepancies. Such defects can impact apparel retailers,

e-commerce platforms, and fashion brands that require consistent quality to maintain customer satisfaction. The key conditions for defective goods return include:

- The buyer must provide photographic evidence, defect reports, and batch numbers before initiating a return request.
- The defect should be reported within a specified timeframe like 7-15 days from receipt to qualify for a return.
- Minor defects such as loose stitching, slight colour variation may not always qualify for returns, depending on supplier agreements.

Resolution Options:

- Full Refund: Offered when the defect is severe and irreparable.
- **Replacement:** Supplier sends an equivalent batch of defect-free products.
- **Credit Note:** Buyers receive credit for future orders, which can be beneficial for on-going supplier relationships.

Challenges in Defective Goods Returns:

- Supplier Disputes: Some suppliers may refuse returns, claiming the defect occurred during handling or transit.
- Third-Party Inspections to avoid conflicts, sourcing managers sometimes engage independent QC agencies for verification.
- Rework vs. Replacement In cases where minor defects exist, some suppliers may offer a discount rather than a full replacement.



Fig. 5.2.1: Defective Jeans

2. Non-Compliant Orders

This category covers products that fail to meet agreed specifications, industry standards, or regulatory norms. Given that the apparel industry in India is increasingly focusing on sustainability and compliance, non-compliant returns are becoming more common.

Types of Non-Compliance:

- **Fabric Composition Errors:** For example, a supplier delivers a 70% cotton blend instead of 100% organic cotton.
- Incorrect Labelling & Packaging: Failure to comply with mandatory labelling laws (e.g., missing wash care instructions, inaccurate fibre content details).
- **Sustainability & Ethical Sourcing Issues:** Products must adhere to sustainability commitments (e.g., GOTS-certified organic textiles).
- **Regulatory Non-Compliance:** If an imported batch does not meet India's BIS (Bureau of Indian Standards) textile regulations, it may be rejected.

Supplier Response & Buyer Options:

- Suppliers may rework and repackage the items instead of issuing refunds.
- Some contracts include penalty clauses, requiring suppliers to compensate buyers for non-compliance.
- If the issue is minor, suppliers may offer discounts rather than taking back the stock.

Common Disputes in Non-Compliant Returns:

- Suppliers may argue that minor deviations are acceptable unless the contract specifies strict adherence.
- Custom orders or personalized branding may be non-returnable, making it critical to conduct pre-dispatch quality checks.

3. Excess Stock Returns

Excess inventory returns allow buyers to send back unsold or surplus stock, a common issue in seasonal and trend-based apparel collections. However, not all suppliers accept returns of excess stock, as it disrupts their inventory planning. Key considerations that are required during excessive stock returns include:

- Fashion & Seasonal Goods: Surplus stock often arises from unsold seasonal items (e.g., Diwali or wedding collections) that lose market value quickly.
- **Restocking Fees:** Suppliers may charge a 10-30% restocking fee to cover the cost of handling and repackaging returned goods.
- MOQs & Bulk Orders: Suppliers catering to fast fashion brands may offer better excess stock return options, while high-MOQ suppliers (e.g., large mills, international vendors) typically restrict returns.

The restrictions during return of each apparel collection involve the below criteria:

- Custom-designed apparel is usually non-returnable unless a specific agreement exists.
- Buyers may need to resell excess stock at a discount rather than returning it.
- Some suppliers offer "buyback clauses," where they repurchase excess inventory at a lower rate.

4. Timeframe for Returns

The return window dictates how long buyers have to initiate returns after receiving an order. The return period varies based on supplier type, product category, and order volume. The guidelines for industry principles for return timeframes include the following:

- Fast-Fashion Brands: 7-15 days (shorter windows due to high turnover).
- Bulk Orders & B2B Supply: 15-30 days (more time for inspections and quality checks).
- Sustainable & Premium Fabrics: Up to 45 days (longer return windows to accommodate international logistics).

Certain challenges during procurement on the part of sourcing managers include:

- Delayed Inspection, that is, if quality checks take longer than the allowed return window, buyers may miss the deadline.
- Customs Delays (Imported Goods), that is, if import clearance takes too long, buyers may have little time left for returns.

5. Return Shipping Costs & Responsibilities

A critical aspect of return policies is determining who bears the cost of logistics when returning goods. Cost-Sharing Models include:

- **Buyer Pays (Common for Imports):** International suppliers (China, Vietnam) often require buyers to cover return shipping due to high freight costs.
- Shared Costs (Domestic Mills & Manufacturers): Large Indian mills may split the cost if the return is due to a manufacturing defect.
- **Supplier Covers (Sustainability Contracts):** Eco-friendly suppliers may offer free return shipping for faulty organic or recycled materials.

However, the hidden costs and risks associated within the return shipping of apparel clothing among the sourcing managers include:

- If returning imported goods, buyers might have to pay customs duties again.
- Slow return shipments can affect the buyer's inventory turnover, especially in fast-moving fashion categories.

6. Replacement & Credit Policies

The replacement and credit procedures specify how suppliers compensate buyers for returned goods. The following is a list of options of compensation during replacement or credit policy implementation:

- Supplier sends new, defect-free stock
- Buyer gets cash reimbursement
- Buyer receives store credit for future orders

Negotiation Strategies that can be used by the sourcing managers during replacement plans include:

- High-volume buyers can negotiate full-credit returns for flexibility.
- Fast fashion brands may prefer replacement over refunds to maintain production schedules.
- Luxury and sustainable brands often negotiate customized compensation for specialty fabrics.

Challenges associated with the replacement and credit policies involve the following:

- Delayed Refunds Some suppliers delay refund processing, affecting cash flow.
- Partial Refunds If the supplier resells returned items, buyers may receive only a partial refund.

Payment Terms

Payment terms in supplier contracts define the structure, schedule, and methods of financial transactions between sourcing managers and suppliers. These clauses are critical for managing cash flow, ensuring timely deliveries, and maintaining supplier relationships. The terms vary based on supplier type, order volume, payment history, and risk assessment. The following are the factors that need to be considered during payment terms in a supplier contract:

1. Advance Payment Requirements

Advance payments serve as an initial financial commitment from buyers, ensuring suppliers can cover raw material costs, production expenses, and labour wages before manufacturing begins. The percentage required upfront depends on multiple factors, including:

- **Supplier Trust & Relationship:** Established buyers with a history of timely payments may negotiate lower advance payments.
- **Contract Size & Order Value:** Higher-value contracts may require larger deposits, especially for bulk orders.
- **Risk Factors:** International trade transactions, new supplier relationships, or custom orders often necessitate higher advance payments to mitigate financial risk.

Typical advance payment structures:

- Local Manufacturers: 20-40% upfront, as they have lower production risks and local material sourcing.
- Large Domestic Mills: 30-50%, depending on fabric type and order volume.
- Imported Suppliers (China/Vietnam): 50-100%, due to shipping costs, currency risks, and international trade policies.
- **Sustainable Suppliers:** 40-60%, reflecting the premium nature of eco-friendly materials and sustainable certifications.

2. Credit Terms

Credit terms determine when buyers must settle payments after receiving goods. They help manage working capital by allowing buyers to sell inventory before making payments. Suppliers typically offer credit based on buyer credibility, order frequency, and past payment history. Common credit terms have been listed below:

- Net 30: Payment due 30 days after delivery—common for small to mid-sized orders.
- Net 60: Payment due 60 days after delivery—offered to trusted, high-volume buyers.
- **Net 90:** Payment due 90 days after delivery—reserved for large corporate buyers with proven financial stability.

Key considerations that are required for the credit terms during payment terms among the supplier contract with the sourcing managers include:

- Larger orders and long-term contracts often have more flexible credit terms.
- New buyers or small brands may need to prove reliability before obtaining extended credit.
- Suppliers with tight cash flow constraints may limit credit options or charge interest on delayed payments.

3. Letter of Credit (LC) & Bank Guarantees

For high-value or international transactions, suppliers often require secure payment mechanisms such as Letters of Credit (LC) and Bank Guarantees to reduce financial risk. The explanation of two payment mechanisms is provided below:

- Letter of Credit (LC): It is issued by the buyer's bank, guaranteeing payment to the supplier upon order fulfilment. It is common in import transactions, ensuring that suppliers receive payment even if the buyer defaults. LC provides security for both parties but involves additional bank fees.
- Bank Guarantees: It refers to the commitment from a bank that ensures the supplier will be paid even if the buyer fails to pay. Used in high-value, long-term contracts where suppliers demand extra financial security.

These methods are essential due to the following reasons:

- LCs is common in international procurement due to varying trade laws, currency fluctuations, and geopolitical risks.
- Bank guarantees help smaller or new brands secure favourable supplier terms, building credibility in the market.

4. Instalment Payment Plans

Some suppliers allow payments to be made in stages rather than a lump sum to ease the financial burden on buyers. This helps buyers maintain better cash flow management while ensuring suppliers receive steady payments.

Common instalment structures include the following:

- 50% upfront, 25% at dispatch, 25% upon delivery (standard for high-value contracts).
- 40% advance, 30% mid-production, 30% post-delivery (negotiable for repeat buyers).
- Monthly payment plans for large retailers or long-term sourcing contracts.

Advantages of instalment payments are provided below:

- It is beneficial for buyers with large orders who cannot pay the full amount upfront.
- Instalment plans help the suppliers manage cash flow by receiving phased payments rather than waiting for full settlement.
- It is most common in sustainable sourcing contracts where premium pricing requires flexible payment terms.

5. Late Payment Penalties

To prevent financial instability and delays, contracts outline penalties for late payments. These penalties ensure suppliers receive payments on time, reducing risks of production halts or legal disputes. Types that are associated within the late payment penalties include the following:

• Interest Charges:

- o Ranges from 1-5% per month on overdue amounts.
- o Encourages timely payments while compensating suppliers for financial delays.

• Order Holds & Suspension:

- o Suppliers may stop the on-going production or withhold future shipments if payments are overdue.
- o Ensures that buyers fulfil their financial commitments before placing new orders.

• Legal Actions & Contract Termination:

- Persistent late payments may result in contract cancellations, legal disputes, or blacklisting of buyers.
- o Suppliers may seek legal recourse for unpaid dues, especially in international trade.

• Flexible Penalties for Ethical & Sustainable Suppliers:

- Sustainable and ethical suppliers often offer grace periods or reduced penalties for verified ethical brands.
- o Helps build long-term partnerships rather than enforcing strict punitive measures.

Payment terms in supplier contracts significantly impact financial planning, supply chain stability, and buyer-supplier relationships. While local and domestic suppliers offer better credit and instalment flexibility, imported suppliers prioritize secure payments like LC to mitigate trade risks. Sustainable suppliers have flexible terms for ethical brands but demand higher upfront payments due to premium material costs.

Sourcing managers should negotiate payment terms that align with their cash flow, order volumes, and supplier trust levels while ensuring transparency and compliance with contract conditions.

-5.2.2 Follow-up with the Supplier

Effective supplier follow-up is a crucial aspect of sourcing management in the apparel industry as it ensures timely deliveries, quality compliance, and strong supplier relationships. It helps brands in avoiding production delays and inventory shortages. A well-structured follow-up process includes regular communication, order tracking, issue resolution, and performance evaluation.

The follow-up steps with the suppliers and the sourcing manager is included in the following image:



1. Order Confirmation & Production Updates Initial Follow-Up after PO (Purchase Order) Issuance

- Ensure that the supplier has received, reviewed, and confirmed the purchase order (PO)
- Obtain a formal confirmation via email or an enterprise resource planning (ERP) system.
- Double-check that all critical order details (fabric type, colour, size, quantity, trims, and packaging) are accurately recorded.

- Ensure that agreed-upon quality standards, compliance certifications, and sustainability requirements are documented.
- Discuss production milestones, including cutting, stitching, finishing, and quality inspection schedules
- Set expectations for progress updates at key stages of production.

Mid-Production Follow-Ups

- Confirm whether the supplier has procured raw materials on schedule and whether any sourcing delays exist.
- Ensure that materials comply with quality standards and certifications.
- Request weekly or bi-weekly production updates to track progress against agreed lead times.
- Identify bottlenecks or potential delays early in the process and work on solutions.
- Schedule factory visits (if local) or virtual inspections (for overseas suppliers).
- Validate workmanship, stitching quality, dye consistency, and finishing.
- Ensure compliance with health, safety, and labour regulations.

Pre-Shipping Follow-Up

- Verify that all pre-shipment quality inspections are complete and documented.
- Ensure that packaging materials meet required brand specifications and sustainability norms.
- Ensure accuracy of invoices, bills of lading, certificates of origin, and customs clearance documents.
- Cross-check with the logistics team to prevent customs hold-ups.

Quality Control & Compliance Checks

- Regular Quality Audits
- Conduct randomized production checks to catch defects early.
- Verify that colour fastness, stitching durability, and fabric texture meet agreed standards.
- Ensure sustainability compliance (organic certifications, safe dyes, waste management).

Addressing Quality Issues

- If quality defects arise, document the issue with photos and reports.
- Communicate concerns immediately and agree on corrective action plans.
- Negotiate rework timelines, product replacements, or financial compensation.
- In cases of non-compliance, apply contract penalties where applicable.

Sustainability & Ethical Sourcing Follow-Ups

- Ensure suppliers meet sustainability standards, such as:
- Global Organic Textile Standard (GOTS) for organic materials.
- OEKO-TEX Standard 100 for chemical safety.
- Fair Trade Certification for ethical labour practices.
- Conduct periodic social audits to ensure compliance with labour laws, fair wages, and safe working conditions.

Delivery & Logistics Coordination

- Shipment Tracking
- Track shipments using RFID, GPS-enabled tracking, or ERP systems.
- Monitor expected delivery timelines and alert teams if potential delays arise.
- Customs & Import/Export Documentation
- Verify that all required export/import documentation is accurate and complete.
- Prevent customs hold-ups by ensuring the supplier provides:
 - o Correct HS (Harmonized System) codes for duty classification.
 - o Certificates of Origin for tariff benefits.
 - o Proper tax invoices to meet regulatory requirements.

Handling Shipping Delays

- Proactively mitigate delays by working with logistics providers for alternative transport options (e.g., air freight for urgent shipments).
- Maintain buffer stock for high-demand SKUs to reduce dependence on single shipments.

Payment & Financial Follow-Ups

- Ensure timely processing of advance payments to prevent supplier production delays.
- Obtain and verify official receipts, pro forma invoices, and bank transaction records.

Credit & instalment Payment Follow-Ups

- Track due dates for Net 30, Net 60, or Net 90-day credit terms.
- Set up automated reminders to ensure timely payments and maintain good supplier relationships.

Dispute Resolution for Financial Discrepancies

- If invoice mismatches or pricing discrepancies occur, immediately communicate with the supplier to rectify errors.
- Negotiate adjustments, credit notes, or deferred payment arrangements for disputed amounts.

Post-Delivery Supplier Evaluation

- Assess key performance indicators (KPIs) such as:
 - o On-time delivery rates.
 - o Product quality consistency.
 - o Responsiveness to issues and flexibility in custom orders.
- Maintain detailed supplier performance reports for future sourcing decisions.

Building Long-Term Partnerships

- Engage in regular check-ins and collaborative planning beyond transactional orders.
- Offer higher-value contracts to suppliers who consistently meet expectations.
- Provide incentives such as volume commitments or early payment bonuses to retain topperforming suppliers.

Addressing Supplier Non-Compliance

- If a supplier repeatedly fails to meet quality, timeline, or compliance standards, consider:
- Renegotiating contract terms with stricter penalties.
- Exploring alternative supplier options to reduce dependency.
- Legal action or termination of contracts in extreme cases of contract breach.

A structured follow-up process ensures efficient supplier management, timely production, and risk mitigation in the apparel industry. By proactively monitoring production, enforcing quality controls, tracking shipments, ensuring timely payments, and evaluating supplier performance, sourcing managers can strengthen relationships, optimize supply chains, and drive business growth.

-5.2.3 Quantity and Quality of Materials in Supplier Contract

Sourcing managers must ensure that supplier contracts clearly define the quantity and quality of materials to avoid supply chain disruptions, maintain product standards, and meet customer expectations. Well-structured contracts minimize risks related to material shortages, defects, and non-compliance while fostering long-term supplier relationships. By integrating these comprehensive quality and quantity control mechanisms into supplier contracts, sourcing managers in the Indian apparel industry can safeguard their supply chains, optimize cost efficiency, and uphold brand reputation in competitive markets.

Quantity specifications in supplier contracts

In the Indian apparel industry, sourcing managers must ensure precise quantity specifications in supplier contracts to prevent supply chain disruptions, optimize production efficiency, and avoid disputes related to shortages or overproduction. These contractual clauses are essential for ensuring that suppliers deliver the right amount of materials at the right time, supporting seamless garment manufacturing and inventory management.

Order Volume & Batch Size

Supplier contracts clearly outline the total quantity of materials required, measured in pieces, meters, or kilograms, depending on the type of raw materials being sourced (e.g., fabrics, trims, accessories). To ensure structured production and delivery, contracts define:

- **Total Order Quantity:** Specifies the exact number of units required per order cycle, ensuring alignment with production needs.
- **Batch Size & Phased Deliveries:** For large orders, batch-wise deliveries are arranged to balance storage capacity, production timelines, and cash flow management.
- **Seasonal Flexibility:** Some agreements allow for variations in quantity based on seasonal demand trends, ensuring brands can adjust orders based on market fluctuations.

Overage & Shortage Allowance

Production processes inherently involve variations, so supplier contracts specify acceptable quantity deviations:

• **Tolerance Limits:** Many contracts permit an overage/shortage allowance of ±2% to ±5% to compensate for potential production losses, dyeing inconsistencies, or excess stock.

- **Bulk Order Considerations:** Larger, mass-market orders may have higher tolerance limits, while luxury or customized orders require strict adherence to exact order volumes.
- **Handling of Excess Stock:** Agreements may define whether the buyer must accept overproduction or if the supplier is responsible for excess stock.

Minimum Order Quantity (MOQ)

MOQs vary significantly depending on the supplier type and their production capabilities. These terms impact sourcing decisions, affecting pricing and supply chain flexibility.

Supplier Type	MOQ Considerations		
Local Manufacturers (Supplier A)	Low MOQ, highly flexible, ideal for fast fashion brands requiring small-batch production.		
Large Domestic Mills (Supplier B)	Medium MOQ, often negotiable based on order size and buyer relationship.		
Imported Suppliers (Supplier C - China/Vietnam)	High MOQ due to bulk shipping requirements and cost efficiency in mass production.		
Sustainable Suppliers (Supplier D - India)	Higher MOQ, as eco-friendly and organic material production requires dedicated processing.		

Table 5.2.1: MOQ sourcing decisions

For sourcing managers, understanding MOQ limitations helps in selecting the right supplier based on brand positioning, budget constraints, and production requirements.

Supply Schedule & Delivery Milestones

To maintain a smooth supply chain, contracts establish clear delivery timelines and phased shipment schedules:

- Expected Delivery Dates: Ensures alignment with production cycles and retail launch timelines.
- **Partial Shipments:** Allows for staggered deliveries, ensuring steady material supply while reducing storage costs.

Delays & Under-Delivery Penalties:

- Contracts include financial penalties (e.g., percentage deductions per day of delay).
- Repeated failure to meet quantity commitments may result in contract termination or loss of future orders.

By including detailed quantity specifications in supplier contracts, sourcing managers can minimize production risks, prevent raw material shortages, and optimize supply chain efficiency, ensuring apparel brands meet market demands without disruptions.

Summary



- Logistics constraints such as supply chain disruptions, transportation issues, and regulatory challenges impact procurement efficiency in India's apparel industry, affecting costs and lead times.
- Sourcing managers must navigate supplier management complexities, including taxation, sustainability regulations, and quality inconsistencies, to ensure smooth procurement processes.
- The Supplier Evaluation Matrix helps sourcing managers assess suppliers based on factors like cost, quality, compliance, and flexibility, enabling informed decision-making.
- To mitigate procurement challenges, companies should invest in digital procurement systems, local sourcing strategies, and supplier diversification to enhance efficiency and competitiveness in the global apparel market.
- Supplier contracts in the Indian apparel industry define payment terms, quality standards, MOQs, and compliance requirements to ensure smooth procurement and minimize risks.
- Sourcing managers must negotiate favourable terms based on order volume, supplier credibility, and sustainability commitments to optimize inventory, ensure compliance, and maintain business stability.
- Effective supplier follow-up includes order confirmation, mid-production checks, pre-shipping follow-ups, and compliance monitoring to ensure smooth production and timely deliveries.
- Clearly defined order volumes, batch sizes, tolerance limits, and delivery schedules help prevent shortages, optimize inventory management, and mitigate supply chain risks.
- Performance evaluations, long-term partnership incentives, and financial follow-ups ensure strong supplier collaboration, minimizing risks of delays, defects, or contract breaches.

Exercise

Multiple-choice Question:

- 1. Which of the following is a major transportation and logistics challenge in India's apparel industry?
 - a. Low demand for imported fabrics
- b. Port congestion and shipping delays
- c. Excess availability of cold storage
- d. Decreasing fuel prices
- 2. What is a key benefit of Supplier A (Local Manufacturer) in the Supplier Evaluation Matrix?
 - a. High import duties and customs delays
 - b. Quickest lead time due to local availability
 - c. Highest compliance with sustainability certifications
 - d. Bulk order requirements for procurement
- 3. Which of the following payment mechanisms ensures suppliers receive payment upon order fulfilment in international trade?
 - a. Instalment Payment Plan

b. Letter of Credit (LC)

c. Net 30 Credit Terms

- d. Advance Payment of 10%
- 4. What is the primary purpose of effective supplier follow-up in the apparel industry?
 - a. To reduce supplier competition
 - b. To ensure timely deliveries, quality compliance, and strong supplier relationships
 - c. To increase production costs for better profit margins
 - d. To reduce supplier audits and documentation requirements
- 5. Which of the following is NOT typically included in quantity specifications in supplier contracts?
 - a. Total order quantity

b. Minimum order quantity (MOQ)

c. Factory layout plan

d. Overage & shortage allowance

Descriptive Questions:

- 1. Discuss the key logistics constraints faced by sourcing managers in the Indian apparel industry and explain how they impact procurement efficiency.
- 2. Explain the role of the Supplier Evaluation Matrix in helping sourcing managers choose the right suppliers.
- 3. Explain the key elements of a supplier contract and how they impact sourcing managers in the Indian apparel industry.
- 4. Explain the key steps involved in supplier follow-up to ensure quality control and compliance in the apparel industry.
- 5. Discuss the importance of quantity specifications in supplier contracts and how they help optimize supply chain efficiency.

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What is Procurement and Understanding the Steps in Procurement Process

https://youtu.be/wDaltiUARU4?si=MKz5hi8OL24QPotW

Contract Management









6. Prepare to Supervise and Evaluate Performance of Subordinates

Unit 6.1: Appraisal Systems



– Key Learning Outcomes 🙄

By the end of this module, the participants will be able to:

- 1. Evaluate work targets for subordinates.
- 2. Analyse different appraisal systems like qualitative, quantitative, teamwork, problem-solving, etc.
- 3. Interpret the organisations laid down the procedure for performance appraisal system.
- 4. Interpret the organisation's laid down norms regarding the work distribution/classification amongst subordinates.

UNIT 6.1: Appraisal Systems

Unit Objectives



By the end of this unit, the participants will be able to:

- 1. List of the types of appraisal systems
- 2. Identify the laid down process for performance appraisal system
- 3. Discuss the work targets as well as work distribution for and amongst the subordinates

6.1.1 Types of Appraisal Systems -

Sourcing managers in the apparel industry play a critical role in ensuring cost-effective procurement, supplier relationship management, and quality assurance. To assess their performance, various appraisal systems are used, focusing on factors such as supplier negotiations, cost savings, efficiency, compliance, and sustainability initiatives. The key types of appraisal systems used are provided below:

Quantitative-Based Appraisal System

These are also known as the data-driven performance metrics that uses numerical data and measurable outcomes to assess a sourcing manager's efficiency.

The KPI-based assessment system is a systematic evaluation method that measures a sourcing manager's performance using quantitative and qualitative indicators. This system makes sure that sourcing managers in the Indian clothing sector follow compliance rules, maintain supplier efficiency, and reach strategic procurement goals. This is the most commonly used method, where performance is measured against predefined quantitative KPIs. These metrics are used due to the following:

- 1. Cost Savings Achieved: Measures the percentage reduction in raw material procurement costs through negotiation, bulk purchasing, and alternative sourcing. Helps track the impact of strategic supplier partnerships and cost-control measures.
- 2. Supplier Performance Metrics: Evaluates on-time delivery rate, defect percentage, and compliance with contractual terms. Ensures that suppliers meet deadlines, deliver quality materials, and adhere to ethical sourcing guidelines. Inventory Turnover Ratio: Efficiency in stock management and reducing excess inventory.
- **3. Sustainability Metrics:** Tracks the percentage of eco-friendly materials sourced and supplier compliance with sustainability certifications. Ensures alignment with global standards like GOTS, OEKO-TEX, and Fair Trade.

Case Study: Evaluation of Quantity Performance

Here's a table summarizing the performance comparison between Sourcing Manager A (High Performer) and Sourcing Manager B (Needs Improvement):

Performance Metric	Target	Sourcing Manager A (High Performer)	Sourcing Manager B (Needs Improvement)
Cost Savings Achieved	5-10% reduction	12% (Above Target)	4% (Below Target)
On-Time Supplier Delivery	90-95%	95% (High Efficiency)	85% (Low Performance)

Performance Metric	Target	Sourcing Manager A (High Performer)	Sourcing Manager B (Needs Improvement)
Defect Rate	Below 3%	1.5% (Excellent Quality)	5% (Quality Issues)
Inventory Turnover Ratio	4-6 times per year	5.2 (Optimal Level)	3.2 (Low Efficiency)
Sustainable Materials Sourced	30-50%	40% (Exceeds Goal)	20% (Below Target)
Final Performance Rating	Above 75% = Good Performance	92% (Excellent)	68% (Needs Improvement)

Table 6.1.1: Evaluating Performance

This table clearly highlights the strengths and weaknesses of each sourcing manager, helping businesses make informed decisions regarding performance appraisals and improvement plans. Quantitative performance is best used for the following reasons:

- Data-driven organizations that emphasize cost efficiency, supplier performance, and sustainability.
- Companies using ERP software and digital procurement tools for real-time tracking of KPIs.
- Apparel brands focused on lean inventory management, reducing procurement costs, and ensuring supplier accountability.

Qualitative-Based Appraisal System

The qualitative appraisal system evaluates a sourcing manager's strategic thinking, negotiation skills, supplier relationship management, and decision-making ability. In contrast to quantitative approaches that depend on numerical measurements, this methodology uses industry experience, procurement ethics, and behavioural competencies to measure long-term efficacy.

Key areas of evaluation in qualitative-based appraisal system based on the experience and soft skills include the following:

- **4. Supplier Relationship Management:** long-term partnerships with reliable suppliers lead to better pricing, priority production slots, and consistent quality. Strong supplier relationships help sourcing managers negotiate favourable payment terms, ensure flexible order modifications, and handle supply chain disruptions smoothly.
- **5. Negotiation Skills:** Strong negotiation skills enable a sourcing manager to reduce procurement costs while maintaining product quality. Ensuring favourable payment terms (Net 30/60/90 days) and contract conditions can significantly improve cash flow management.
- **6. Market Knowledge:** A sourcing manager must stay updated on fabric price fluctuations, emerging trends, supplier capabilities, and global trade regulations to make informed purchasing decisions. Market intelligence helps in diversifying supplier bases, mitigating risk, and capitalizing on cost-saving opportunities.
- 7. Compliance & Ethics: Sourcing managers play a crucial role in ensuring ethical procurement, labour law compliance, and adherence to sustainability standards. Non-compliance with legal and environmental regulations can lead to brand reputation damage, financial penalties, or supply chain disruptions.

Case Study: Quality Performance Evaluation

Evaluation Criteria	Sourcing Manager A (High Performer)	Sourcing Manager B (Needs Improvement)
Supplier Relationship Management	Builds long-term supplier partnerships, ensuring reliability and priority deliveries.	Struggles with supplier relationships, leading to frequent disruptions.
Negotiation Skills	Successfully negotiates a 15% reduction in material costs while maintaining quality.	Fails to secure discounts, leading to increased procurement costs.
Market Knowledge	Identifies alternative suppliers when raw material costs rise, saving 10% in sourcing expenses.	Reacts late to price fluctuations, increasing manufacturing costs.
Compliance & Ethics	Ensures all suppliers meet labor laws, sustainability, and fair trade requirements.	Ignores supplier compliance issues, risking legal action and reputational damage.
Final Rating	Excellent Performance (90%)	Needs Improvement (65%)
Final Performance Rating	Above 75% = Good Performance	92% (Excellent)

Table 6.1.2: Example of performance evaluation

Qualitative appraisal system is best used for:

- Organizations that handle high-value procurement, luxury brands, or ethical sourcing initiatives.
- Companies looking to develop long-term supplier relationships for stable sourcing.
- Fashion brands that prioritize negotiation skills and strategic supplier management

A thorough evaluation of a sourcing manager's capacity to navigate market trends, manage supplier relationships, negotiate successfully, and maintain ethical standards is offered via a qualitative-based appraisal method. This strategy guarantees that sourcing experts make contributions that go beyond cost-cutting criteria, resulting in procurement operations that are effective and long-lasting.

Teamwork & Collaboration-Based Appraisal System

The competence of a sourcing manager to collaborate with many departments and external stakeholders is evaluated by the teamwork-based appraisal method. Because sourcing managers' work at the nexus of design, manufacturing, finance, logistics, and compliance, supply chain efficiency, cost control, and on-time production are all directly impacted by how well they collaborate with others.

This assessment approach emphasizes cooperation, communication, and cross-functional problem-solving to guarantee seamless operations in the clothing industry, in contrast to strictly quantitative or individual performance-based methods. Factors that are associated within the teamwork and collaborations based appraisal system is listed in the following:

1. Interdepartmental Coordination: Sourcing managers must align raw material procurement with design, production, and finance teams to prevent delays or cost overruns. Effective coordination ensures fabric and trims arrive in sync with production schedules, minimizing downtime.

- 2. Crisis Management with Teams: Unexpected supply chain disruptions (e.g., raw material shortages, logistics delays, or geopolitical trade restrictions) require fast, team-oriented problem-solving. Sourcing managers must work with internal teams and suppliers to find alternative solutions, minimize financial impact, and keep production schedules on track.
- **3. Training & Knowledge Sharing:** Sourcing managers mentor junior buyers and procurement staff to strengthen overall team capability. Sharing industry insights on supplier management, pricing trends, compliance requirements, and negotiation strategies improves collective performance.
- **4. Supplier Communication:** Clear and proactive communication with suppliers ensures expectations are met, quality standards are upheld, and orders are delivered on time. Miscommunication or lack of follow-ups can lead to material shortages, defective shipments, or supply chain inefficiencies.

Case Study	y: Performance	Evaluation 1	for Teamwork
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Evaluation Criteria	Sourcing Manager A (High Performer)	Sourcing Manager B (Needs Improvement)
Interdepartmen- tal Coordination	Works seamlessly with designers, production, and finance to align sourcing with manufacturing schedules.	Fails to communicate sourcing delays, leading to production bottlenecks.
Supplier Communication	Ensures clear expectations and regular follow-ups, preventing supply chain disruptions.	Poor communication leads to misunderstandings, shipment issues, and delays.
Crisis Management with Teams	Quickly sources alternative materials during shortages, preventing factory downtime.	Delays in problem resolution cause missed production deadlines.
Training & Knowledge Sharing	Conducts training sessions for junior staff and shares sourcing best practices.	Does not mentor or train team members, resulting in procurement inefficiencies.
Final Rating Excellent Performance (91%) Needs Improvemen		Needs Improvement (64%)

Table 6.1.3: Teamwork-based appraisal performance

Teamwork is best suited for the following reasons:

- Organizations that prioritize teamwork, cross-functional collaboration, and seamless supply chain execution.
- Companies with large-scale operations where sourcing managers must coordinate across multiple teams.
- Apparel brands that value proactive problem-solving and supplier relationship management.

A sourcing manager's performance is evaluated on more than simply cost and efficiency thanks to the teamwork-based appraisal system. It acknowledges how crucial cooperation, communication, and crisis management are to preserving an orderly and effective supply chain. This system promotes supplier engagement and interdepartmental collaboration, which improves operational agility and long-term company performance.

Problem-Solving & Crisis Management-Based Appraisal System

The Crisis Management-Based Appraisal System assesses a sourcing manager's ability to react to unforeseen risks, price swings, urgent production problems, and supply chain disruptions. Crisis-handling abilities are essential for continuous production and cost effectiveness in India's textile industry, which frequently experiences raw material shortages, price volatility, logistics delays, and regulatory issues. In order to reduce interruptions and financial damage, this rating approach emphasizes a manager's capacity for proactive thinking, prompt response, and contingency planning. The key areas for crisis management are provided below:

- 1. Alternative Supplier Sourcing: Disruptions in raw material availability due to supplier failure, quality issues, or regulatory bans can halt production. A sourcing manager must identify, evaluate, and on-board alternative suppliers quickly to maintain supply continuity.
- **2. Price Volatility Handling:** Global fluctuations in fabric, dye, or trim prices impact procurement costs. A skilled sourcing manager must adjust purchasing strategies to maintain profitability without compromising quality.
- **3. Supply Chain Disruption Response:** Apparel production is time-sensitive, and delays due to logistics issues, strikes, regulatory changes, or natural disasters can affect product launches. A sourcing manager must ensure quick problem resolution to prevent bottlenecks.
- **4. Risk Mitigation Strategies:** Strong risk management prevents financial losses, reputational damage, and production halts due to supplier failures. Implementing supplier accountability clauses and diversified sourcing plans ensures business continuity.

Case Study: Problem-solving performance analysis

Evaluation Criteria	Sourcing Manager A (High Performer)	Sourcing Manager B (Needs Improvement)
Alternative Supplier Sourcing	Quickly finds a backup supplier within 24 hours to prevent production stoppage.	Fails to secure an alternative supplier, leading to production delays.
Price Volatility Handling	Locks in stable pricing contracts, avoiding a 15% increase in raw material costs.	Reacts late to price increases, leading to higher costs.
Supply Chain Dis- ruption Response	Reroutes shipments to avoid a blocked shipping port, ensuring ontime delivery.	Ignores logistics bottlenecks, delaying retail product launches.
Risk Mitigation Strategies	Includes penalty clauses in contracts and diversifies supplier base to reduce risks.	Over-relies on one supplier, leading to business disruptions.
Final Rating	Excellent Performance (93%)	Needs Improvement (66%)

Table 6.1.4: Performance based on the crisis management appraisal system

Problem-solving based appraisal system is best suited due to the following reasons:

- Businesses dealing with uncertain supply chains, global sourcing, and frequent disruptions.
- Apparel brands relying on raw materials with volatile pricing (e.g., cotton, synthetic fabrics).
- Organizations prioritizing proactive risk management in procurement.

A sourcing manager's assessment is based on their capacity to effectively foresee, handle, and resolve problems, thanks to the Crisis Management-Based Appraisal System. In order to maintain a robust and flexible supply chain in the clothing sector, this approach encourages proactive problem-solving, supplier risk minimization, and strategic cost control.

6.1.2 Laid Down Process for Performance Appraisal System

The laid-down process for performance appraisal system refers to a structured and standardized method for evaluating employee performance within an organization. It defines the step-by-step framework used to assess, measure, and review an employee's contributions based on predefined criteria. A well-defined Performance Appraisal System for Sourcing Managers in the Apparel industry ensures that their contributions are measured, reviewed, and aligned with business objectives. A structured appraisal process helps in identifying high performers, addressing skill gaps, and setting future goals for procurement efficiency and supply chain management.

This process ensures fair, objective, and transparent performance evaluations, helping organizations recognize high-performing employees, identify skill gaps, and support professional development.

The key aspect of a laid-down performance appraisal process includes:

- **Standardized Criteria:** Clear guidelines on how performance will be measured such as KPIs, teamwork, problem-solving.
- **Defined Steps:** A systematic process from setting performance goals to final review and feedback.
- **Data-Driven & Qualitative Assessment:** Uses both measurable metrics like cost savings, efficiency and qualitative factors such as leadership along with collaboration.
- **Employee Development Focus:** It helps in career growth, training, and skill enhancement.
- Fair & Transparent: It ensures unbiased evaluations and provides employees with constructive feedback.

Step-by-Step Process for Performance Appraisal includes:



Fig. 6.1.1: Laid Down Process in appraisal system

1. Define Performance Metrics & Evaluation Criteria

Establish Key Performance Indicators (KPIs) that align with business goals by including quantitative, qualitative, teamwork, and problem-solving criteria.

Example KPIs for Sourcing Managers:

- **Cost Efficiency:** % of savings achieved on raw material procurement.
- Supplier Performance: On-time delivery rate, defect rate, and compliance score.
- Crisis Management: Ability to mitigate supply chain disruptions and price fluctuations.
- **Team Collaboration:** Effective coordination with production, logistics, and finance teams.
- Sustainability & Compliance: % of ethically sourced materials and adherence to legal standards.

2. Set Performance Goals & Expectations

- Communicate clear performance objectives to sourcing managers at the start of the appraisal cycle.
- Align goals with organizational priorities (e.g., sustainability, cost reduction, faster lead times).
- Differentiate between short-term (quarterly) and long-term (annual) objectives.

Example:

- Short-term Goal: Reduce raw material cost by 5% in Q2.
- Long-term Goal: Increase sustainable sourcing from 25% to 40% by year-end.

3. Conduct Periodic Performance Reviews

Implementing Quarterly or Bi-Annual Check-ins is essential to track progress that helps in providing continuous feedback to address issues before the final review.

Types of Performance Reviews:

- Self-Appraisal: The sourcing manager evaluates their performance based on set KPIs.
- Managerial Review: The direct supervisor assesses the manager's contributions.
- **360-Degree Feedback:** Inputs from cross-functional teams (production, logistics, finance, suppliers).

4. Performance Data Collection & Analysis

Gather quantitative performance data from ERP, procurement software, and financial reports by c collecting qualitative insights from peer feedback, supplier interactions, and negotiation outcomes.

Example Data Sources:

- Supplier Scorecards
- ERP Systems
- Audit & Compliance Reports

5. Final Performance Evaluation & Rating

Assigning a performance score based on data-driven and qualitative assessments is the next step. Utilising a rating scale (e.g., 1-5 or percentage-based) is beneficial to categorize performance levels.

Example Rating Scale:

Rating (%)	Performance Category	Action Plan	
90-100%	Excellent Performer	Recognition, promotion, higher incentives	
75-89%	Strong Performer	Consideration for leadership roles	

Rating (%)	Performance Category	Action Plan
60-74%	Needs Improvement	Training & mentorship required
Below 60%	Poor Performance	Performance improvement plan (PIP)

Table 6.1.5: Scenario for Data collection and analysis

6. Feedback Discussion & Career Development Plan

Conducting one-on-one appraisal meetings is beneficial to discuss strengths, areas of improvement, and career growth. It provides constructive feedback with actionable recommendations for improvement. This helps in identifying training and skill development opportunities such as negotiation skills, supplier management.

Example:

 A sourcing manager with low negotiation success rate may undergo procurement negotiation training.

7. Performance-Based Incentives & Recognition

- Link appraisal outcomes to rewards such as bonuses, promotions, and salary increments.
- Recognize top performers with awards, career growth opportunities, or special assignments.

Example Incentives:

- Cost Reduction Bonus
- Sustainability Excellence Award
- Leadership Development Program

8. Continuous Performance Monitoring & Improvement

Establishing a year-round performance tracking system rather than an annual review-only approach as well as encouraging continuous learning, mentorship, and process optimization for sourcing efficiency is effective.

Example:

- Quarterly reports to track sourcing efficiency improvements.
- Regular supplier audits to ensure long-term compliance and quality.
- Al-driven procurement analytics to predict cost trends and optimize purchasing strategies.

A structured Performance Appraisal System with a laid down process helps sourcing managers in the apparel industry achieve better procurement outcomes, strengthen supplier relationships, optimize costs, and drive sustainability. This system ensures fair evaluation, continuous improvement, and career growth opportunities for sourcing professionals.

6.1.3 Work Targets for Subordinates

Subordinates such as the junior sourcing managers, sourcing executives, and procurement assistants play a crucial role in supplier coordination, cost negotiation, quality control, and logistics management. Their work targets are typically aligned with overall business goals and key performance indicators (KPIs) set by senior sourcing managers. The work targets among the subordinates include the following that has been provided in the table below:

Target Area	Objective	Responsibilities	Example Target
Supplier Coordination & Order Management	Ensure timely placement and execution of purchase orders (POs).	 Track supplier lead times and confirm order acknowledgments. Maintain supplier databases and update order status in ERP systems. Coordinate raw material shipments and resolve supply chain bottlenecks. 	Ensuring 95% of POs are acknowledged by suppliers within 48 hours of issuance.
Cost Optimization & Budget Adherence	Identify cost-saving opportunities while maintaining quality standards.	 Assist in cost negotiations by researching market rates. Analyse historical pricing data and supplier quotes for cost benchmarking. Ensure adherence to procurement budgets and minimize over-expenditure. 	Achieving a 5-10% cost reduction in material procurement through supplier negotiations.
Quality Control & Compliance Monitoring	Maintain high product quality and ensure compliance with sourcing regulations	 Conduct pre-production and in-line quality inspections. Ensure suppliers comply with certifications like GOTS, OEKO-TEX, SEDEX. Track and report defect rates, ensuring they stay below the 2% industry standard. 	
Delivery & Logistics Efficiency	Ensure on-time delivery of raw materials to avoid production delays	 Monitor shipment schedules and follow up with logistics providers. Minimize customs clearance delays by ensuring accurate documentation. Maintain buffer stock levels for critical materials to avoid shortages. 	Achieving 98% on-time supplier deliveries with minimal delays.

Target Area	Objective	Responsibilities	Example Target
Ethical & Sustainable Sourcing Goals	Increase procurement of sustainable and ethically sourced materials.	 Identify and on-board eco- friendly suppliers. Track sustainable material usage in procurement reports. Ensure compliance with ethical labour laws in supplier factories. 	Increasing sustainable material sourcing by 25% year-over-year.
Data Management & Reporting	Ensure accurate data tracking for procurement decisions.	 Maintain updated reports on supplier performance and costs. Analyse sourcing trends and suggest improvements. Generate weekly and monthly procurement reports for management review. 	Submiting 100% accurate weekly reports on supplier performance and cost analysis.
Problem- Solving & Crisis Management	Proactively resolve supply chain disruptions and vendor-related issues.	 Develop alternative supplier options for key materials. Coordinate with suppliers to handle urgent orders and unforeseen delays. Implement corrective actions for recurring supply chain issues. 	Reducing supplier- related disruptions by 30% within six months.

6.1.4 Work Distribution Amongst Subordinates

A sourcing manager in the Indian apparel industry oversees a team responsible for procurement, quality control, logistics, compliance, and supplier management. Work distribution among subordinates ensures efficiency, accountability, and streamlined operations.

The key point required during the work distribution among the subordinates is included in the following table:

Team	Key Responsibilities	Subordinates Assigned	Example KPI
Supplier Relationship & Order Processing	Supplier management, PO tracking, pricing negotiations	Supplier Coordinator, Procurement Executive	95% PO acknowledgment within 48 hours
Costing & Budget Control	Cost benchmarking, price negotiations, budgeting	Cost Analyst, Finance Coordinator	5-10% cost savings
Quality Control & Compliance	Inspections, defect tracking, legal compliance	Quality Inspector, Compliance Officer	Maintain defect rates <2%

Team	Key Responsibilities	Subordinates Assigned	Example KPI
Logistics & Delivery Management	Shipment tracking, customs clearance, buffer stock management	Logistics Coordinator, Inventory Controller	98% on-time delivery
Sustainability & Ethical Sourcing	Sourcing eco-friendly materials, ethical compliance	Sustainability Manager, Sourcing Analyst	Increase sustainable sourcing by 25% YOY
Data Analysis & Reporting	KPI tracking, supplier performance reports	Data Analyst, MIS Executive	100% accurate weekly reports
Risk Management & Alternative supplier sourcing, crisis response		Crisis Manager, Risk Analyst	Reduce supply disruptions by 30% in 6 months

Table 6.1.6: Work Distribution amongst the subordinates in sourcing

Effective task distribution among subordinates improves supplier compliance, cost savings, sourcing efficiency, and crisis management. Effective delegation guarantees that sourcing managers may concentrate on long-term procurement planning, supplier negotiations, and strategic decision-making.

Summary



- Sourcing managers in the apparel industry are assessed through various appraisal systems, including Quantitative-Based, Qualitative-Based, Teamwork & Collaboration-Based, and Problem-Solving & Crisis Management-Based methods.
- Teamwork & Collaboration-Based Appraisal emphasizes cross-functional coordination, crisis resolution, and effective supplier communication, ensuring smooth supply chain management.
- Quantitative-Based Appraisal focuses on measurable KPIs like cost savings, supplier performance, inventory turnover, and sustainability compliance, while Qualitative-Based Appraisal evaluates soft skills such as negotiation, supplier relationships, and compliance ethics.
- The Problem-Solving & Crisis Management-Based Appraisal evaluates a sourcing manager's ability to handle supply chain disruptions, price fluctuations, and alternative supplier sourcing, ensuring business continuity.
- A structured performance appraisal process includes setting performance metrics, conducting
 periodic reviews, data collection, feedback discussions, and linking performance to incentives,
 fostering continuous improvement and career development for sourcing managers.
- Subordinates in sourcing teams have specific responsibilities aligned with key performance indicators (KPIs), ensuring efficiency in procurement, cost control, quality management, logistics, and sustainability.
- Work among subordinates is divided into specific areas such as supplier relationship management, cost control, quality assurance, logistics, sustainability, data management, and risk mitigation to ensure smooth sourcing operations.
- Maintaining high product quality, compliance with industry standards, and achieving 98% on-time supplier deliveries contribute to minimizing production delays and improving efficiency.
- Identifying alternative suppliers, managing supply chain disruptions, and implementing corrective actions help reduce supplier-related disruptions by 30% within six months, ensuring business continuity.
- Ensuring timely order placements, supplier negotiations, and cost savings are key objectives, with KPIs such as 95% PO acknowledgments within 48 hours and achieving 5-10% cost reduction in material procurement.



Multiple-choice Question:

- 1. Which of the following metrics is commonly used in a Quantitative-Based Appraisal System for sourcing managers?
 - a. Supplier Relationship Management
- b. Crisis Communication Strategy

c. Cost Savings Achieved

- d. Employee Engagement Score
- 2. What is a key benefit of using the Teamwork & Collaboration-Based Appraisal System?
 - a. It focuses solely on reducing procurement costs.
 - b. It prioritizes cross-functional cooperation for supply chain efficiency.
 - c. It evaluates only quantitative data related to sourcing.
 - d. It ignores crisis management and problem-solving skills.
- 3. Which of the following is NOT a step in the laid-down performance appraisal process?
 - a. Performance Data Collection & Analysis
 - b. Feedback Discussion & Career Development Plan
 - c. Ignoring Supplier Performance Metrics
 - d. Continuous Performance Monitoring & Improvement
- 4. What is the primary responsibility of subordinates in Supplier Coordination & Order Management?
 - a. Conducting supplier audits
 - b. Tracking supplier lead times and confirming order acknowledgments
 - c. Managing employee payroll
 - d. Designing new product lines
- 5. Which of the following is a key performance indicator (KPI) for Logistics & Delivery Management?
 - a. Ensuring supplier defect rates stay below 5%
 - b. Achieving 98% on-time supplier deliveries with minimal delays
 - c. Increasing procurement budget by 10%
 - d. Reducing the number of suppliers annually

Descriptive Questions:

- 1. Explain the differences between Quantitative-Based and Qualitative-Based Appraisal Systems for sourcing managers in the apparel industry.
- 2. Describe the importance of crisis management in the sourcing manager's appraisal system. Provide two examples of crisis-handling strategies.
- 3. Outline the key steps involved in the laid-down process for the performance appraisal system and explain its significance for sourcing managers.
- 4. Explain the importance of ethical and sustainable sourcing in the apparel industry and list two key responsibilities of subordinates in this area.
- 5. Describe the role of a sourcing manager in work distribution among subordinates and how it contributes to efficiency in procurement operations.

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Performance Appraisal

https://youtu.be/A4GklhGISxM?si=aisFh8OFcLTmTMqS

Performance appraisal method, Human Resource









7. Supervise and Evaluate the Performance of Subordinates

Unit 7.1: Goals and Target for the Subordinates

Unit 7.2: Quantified Measures and Metrics to Analyse the Performance



-Key Learning Outcomes 🙄

By the end of this module, the participants will be able to:

- 1. Ensure and implement strict adherence of all activities performed by subordinates to organizational guidelines.
- 2. Conduct appraisal as per respective performance documents
- 3. Set goals and targets for the subordinates as per organizational directives.
- 4. Create quantified measures and metrics to analyse the performance delivered by subordinates.
- 5. Interpret different tools to measure performance like KRA, etc.

UNIT 7.1: Goals and Target for the Subordinates

-Unit Objectives 🏻 🏻



By the end of this unit, the participants will be able to:

- 1. Discuss the goals and target of the sourcing organisation directives
- 2. List of the organisational guidelines
- 3. Identify the strict adherence to performance activities by the subordinates

7.1.1 Organisational Guidelines

Organizational guidelines refer to a set of structured rules, policies, and best practices established by a company to ensure efficiency, compliance, and standardization in business operations. These guidelines serve as a framework for decision-making and ensure that all sourcing activities align with the company's strategic goals and legal requirements. In the apparel sourcing industry, these guidelines help businesses maintain quality, optimize costs, follow ethical practices, and streamline supply chain management. The key organizational guidelines followed in apparel sourcing in India are provided below:

	Guidelines	Key activities	Examples/Case Company
1.	Vendor Selection	 Conducting due diligence on suppliers. Verifying certifications (ISO 9001, SA 8000, OEKO-TEX, GOTS). Assessing factory capabilities & compliance. 	Page Industries (Jockey India) implements a stringent supplier selection process ensuring ethical and sustainable compliance before on -boarding.
2.	Cost Negotiation	 Ensuring sourcing aligns with budgets. Comparing vendor prices for costeffectiveness. Establishing long-term contracts for bulk pricing. 	Bombay Rayon Fashions Ltd. reduces procurement costs by securing long-term contracts with multiple textile manufacturers. Bombay Rayon Fashions Ltd.

Guidelines	Key activities	Examples/Case Company
3. Quality Control	 Implementing pre-production, inline, and post-production quality checks. Following AQL (Acceptable Quality Limit) standards. Ensuring adherence to fabric & stitching specifications. 	Monte Carlo Fashions Ltd. follows a rigorous multi-stage quality check for premium winter and woollen apparel. MONTE CARLO
4. Ethical Sourcing	 Ensuring compliance with the Factories Act, 1948, and Minimum Wages Act, 1948. Prohibiting child labour and unsafe working conditions. Conducting social audits for vendor compliance. 	Indo Count Industries Ltd. conducts periodic factory audits to ensure ethical labour practices and safe working conditions in textile manufacturing.
5. Logistics Optimization	 Using digital tracking for real-time shipment monitoring. Optimising inventory management. Collaborating with 3PL (third-party logistics) providers. 	TCNS Clothing Co. Ltd. (W, Aurelia) uses advanced supply chain software to track production and ensure efficient logistics management.
6. Sustainability Guidelines	 Promoting organic, recycled, and water-efficient materials. Reducing carbon footprint via ecofriendly factories. Implementing waste-reduction processes like Zero-Liquid Discharge (ZLD). 	Go Colors implements eco-friendly production methods, including the use of sustainable dyes and recycled fabrics.

Guidelines	Key activities	Examples/Case Company
7. Digitalisation Technology	 Implementing ERP systems for procurement tracking. Using block chain for supply chain transparency. Applying AI & Big Data for inventory forecasting. 	Zodiac Clothing Company Ltd. uses ERP systems and AI-based forecasting tools for inventory optimization and trend analysis.
8. Trade Regulations	 Following EXIM policies, GST, and Customs Act regulations. Benefiting from FTA & GSP trade agreements. Maintaining Letter of Credit (LC) & Bill of Lading (BOL). 	Kewal Kiran Clothing Ltd. (Killer, Lawman Pg3) adheres to Indian trade policies and global trade agreements to facilitate seamless export operations.
9. Crisis Management	 Developing contingency plans for port delays, shortages, or disruptions. Maintaining alternative vendor sources. Conducting regular risk assessments. 	Blackberrys: Maintains backup suppliers across India to mitigate risks associated with supply chain disruptions.
10. Corporate Social Responsibility (CSR) in Sourcing	 Empower local artisans & fair-trade businesses. Support women-led & small-scale manufacturers. Invest in community programs for worker welfare. 	Biba Apparels Ltd. Supports women artisans and traditional Indian textile crafts through community-driven fair trade initiatives.

Table 7.1.1: Organisational Guidelines with real-life examples

Organizational guidelines in apparel sourcing provide a structured approach to ensure efficiency, quality, cost control, compliance, and sustainability. By following these guidelines, Indian apparel companies can streamline sourcing operations, maintain strong vendor relationships, and comply with global industry standards.

As the apparel industry evolves, adopting digital solutions, sustainable practices, and ethical sourcing policies will be essential for long-term success. Companies that adhere to these structured guidelines will be better positioned to compete in domestic and international markets while ensuring responsible and profitable business growth.

-7.1.2 Goals and Target of the Organisational Directives

The goals and targets of subordinates are aligned with the organizational directives to ensure smooth procurement, quality compliance, cost efficiency, and timely delivery of products. These objectives focus on optimizing supply chain operations, maintaining stringent quality compliance, achieving cost efficiency, and ensuring timely product delivery. By effectively coordinating with suppliers, monitoring production timelines, and adhering to industry standards, subordinates play a crucial role in meeting organizational expectations. Subordinates' performance directly impacts the company's ability to remain competitive, enhance profitability, and uphold brand reputation in the global apparel market.

Target	Goals	Responsibilities	Case Examples
Sourcing and Procurement Efficiency	Subordinates must identify and work with cost- effective, high- quality suppliers to enhance operational efficiency.	 Supplier Identification Negotiation Budget Compliance 	Fabindia sources hand-woven fabrics and handcrafted apparel from artisans and weavers across India.
Quality Control and Compliance	Ensuring consistent quality and compliance with international standards is critical to maintaining brand reputation and customer satisfaction.	 Quality Checks Defect Reduction Compliance Adherence 	Raymond ensures compliance with international standards and has established a strong reputation for premium quality fabrics.

Target	Goals	Responsibilities	Case Examples
Supply Chain and Logistics Management	A well-managed supply chain ensures timely production and minimizes delays, reducing operational costs and enhancing efficiency.	 Timely Production & Delivery: Inventory Optimization Logistics Coordination 	Arvind Ltd., has strict compliance policies ensuring that its vendors follow labour laws and ethical sourcing practices.
Vendor Management and Relationship Building	Strong vendor relationships foster long-term partnerships, improving consistency in quality, pricing, and timely delivery.	 Supplier Relationship Management: On-boarding New Vendors Ethical Sourcing Compliance 	Aditya Birla Fashion & Retail (ABFRL) owns brands like Pantaloons and Allen Solly by maintaining strategic relationships with garment manufacturers across India.
Market Research and Trend Analysis	Staying updated with fashion trends and material innovations is crucial for competitive sourcing.	 Trend Monitoring Competitor Analysis Innovative & Sustainable Sourcing 	Myntra uses Al-powered analytics to track emerging trends and source trending apparel efficiently.
Cost Optimization and Budget Adherence	Effective cost control ensures sustainable profitability while maintaining quality and operational efficiency.	 Budget Control Cost-Saving Measures Minimizing Waste 	Shahi Exports optimizes costs by investing in automation and lean manufacturing techniques.

Target	Goals	Responsibilities	Case Examples
Compliance with Organizational Directives & Sustainability Goals	Modern apparel sourcing must align with sustainability and ethical sourcing mandates to meet consumer and regulatory expectations.	 Policy Alignment Ethical Sourcing Environmental Standards 	Westside has committed to sourcing sustainable fabrics and reducing water waste in production

Table 7.1.2: Goals and Targets

Companies like Fabindia, Raymond, Arvind Ltd., and Aditya Birla Fashion & Retail set examples by integrating sustainable sourcing practices, implementing digital tracking systems, and maintaining strong ethical standards within their supply chains. These industry benchmarks serve as valuable learning models, enabling subordinates to align their sourcing strategies with globally recognized best practices.

Subordinates play a critical role in ensuring procurement efficiency, quality compliance, supply chain effectiveness, and cost optimization. By following best practices and learning from leading Indian apparel companies, they can drive sustainable growth, improve efficiency, and strengthen brand competitiveness in the market. As the apparel industry evolves, their adaptability, strategic thinking, and commitment to continuous improvement will remain key drivers of organizational growth and market leadership.

UNIT 7.2: Quantified Measures and Metrics to Analyse the Performance

Unit Objectives



By the end of this unit, the participants will be able to:

1. Discuss the tools used for performance measurement such as KRA and

7.2.1 Tools Used for Performance Measurement

Sourcing managers play a crucial role in ensuring efficient procurement, cost optimization, quality compliance, and timely delivery of stitched garments. Their performance is measured using a structured appraisal system that incorporates various tools. Their performance is measured through well-defined Key Result Areas (KRAs) that focus on efficiency, cost-effectiveness, quality assurance, vendor management, supply chain optimization, and sustainability. With increasing global competition, digitization, and sustainability mandates, sourcing managers must leverage advanced performance measurement tools aligned with their KRAs to track and improve procurement processes.

Sourcing managers in India's apparel industry use various tools to evaluate their performance based on Key Performance Indicators (KPIs) and Key Result Areas (KRAs). These tools help track efficiency, cost optimization, vendor management, compliance, and sustainability. The KPI tools that help a sourcing manager to monitor and measure performance are provided in the table below:

Tools	Purpose	Example Usage
Power BI / Tableau	Business intelligence dashboards to analyse procurement KPIs	Future Lifestyle Fashions (Lee Cooper, Converse, Indigo Nation) uses Power BI for real- time procurement insights.

Tools	Purpose	Example Usage
SAP Apparel & Footwear ERP	Tracks purchase orders, vendor performance, and financial impact	Page Industries (Jockey India) uses SAP AFS to optimize sourcing expenses.
Oracle NetSuite ERP	End-to-end tracking of sourcing operations	Gokaldas Exports uses Oracle ERP to streamline fabric procurement and vendor performance.
Jaggaer SRM (Supplier Relationship Management)	Supplier performance evaluation	Blackberrys uses Jaggaer for tracking supplier reliability and efficiency.
Zycus Spend Analysis	Procurement cost analysis and savings tracking	Kewal Kiran Clothing Ltd. (Killer, Lawman PG3, Integriti) uses Zycus to monitor sourcing costs and budget adherence.

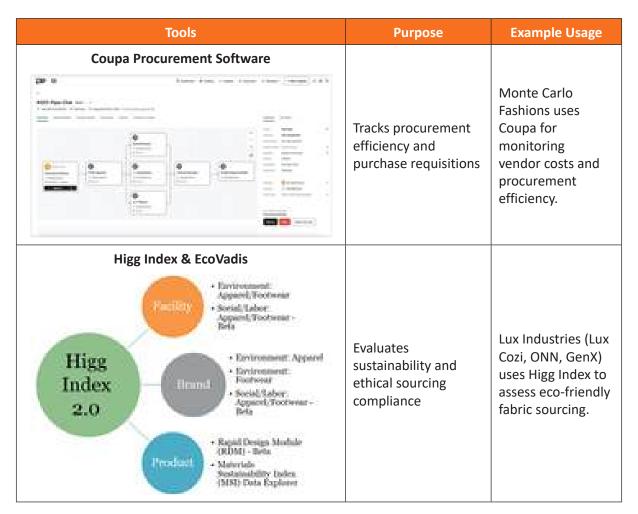


Table 7.2.1: KPI tools used for performance evaluation

KRA tools that are used for performance evaluation includes the following provided in the table:

Tool	Key Result Area (KRA)	Purpose	Example Usage in Indian Apparel Industry
Intertek / SGS Testing Intertek / SGS Testing Total Quality. Assured.	Quality Control	Conducts fabric and garment inspections	TT Limited (TT Textiles) uses SGS Testing to ensure fabric quality for export compliance.

Tool	Key Result Area (KRA)	Purpose	Example Usage in Indian Apparel Industry
Single Sempling Plan For Normal Inspection Sample size code letters	Defect & Rework Rate Management	Reduces garment defects through structured inspections	Siyaram's follows AQL 2.5 for fabric and garment quality assurance.
RFID & IoT-Based Tracking Systems	Supply Chain & Logistics Optimization	Tracks shipment status and warehouse inventory	Cantabil Retail India Ltd. uses RFID tracking for efficient inventory management.
SAP TMS (Transport Management System)	Logistics & Delivery Performance	Optimizes supply chain and transportation costs	Indian Terrain Fashions Ltd. uses SAP TMS to reduce lead times in apparel distribution.
SA 8000 / SEDEX	Ethical Sourcing & Compliance	Ensures fair labor and ethical practices in vendor facilities	Orient Craft Ltd. follows SEDEX audits for ethical production compliance.

Tool	Key Result Area (KRA)	Purpose	Example Usage in Indian Apparel Industry
Block-chain-Based Supply Chain Tools	Transparency & Traceability	Tracks raw material sourcing origins	Dollar Industries Ltd. (Dollar Bigboss, Dollar Missy) uses blockchain solutions to ensure ethically sourced cotton.
GEP Smart Procurement Software GEP GEP LOGIN GEP HENCE ** BOSP SIMMET ** BOSP CLICK GODGAN GEP SERVER ** BOSP CLICK GODGAN GEP	Cost Optimization	Tracks sourcing costs and savings	Biba Apparels uses GEP Smart to analyze cost efficiencies in fabric procurement.
HRMS Tools (Keka, BambooHR, Darwinbox)	Performance Appraisal & Employee Productivity	Monitors individual sourcing manager performance	Mufti (Credo Brands Marketing Ltd.) uses Keka for KPI-based performance appraisals.

Table 7.2.2: KRA application for performance analysis

Sourcing managers in India's apparel industry rely on advanced ERP, business intelligence, procurement tracking, quality assurance, and compliance tools to measure performance and optimize sourcing strategies. Companies like Future Lifestyle Fashions, Page Industries, Monte Carlo, and Indian Terrain use Al-driven tools, cloud-based procurement systems, and ethical compliance solutions to enhance sourcing efficiency while adhering to budget constraints and sustainability goals.

-7.2.2 Performance Documents and Its Use During Appraisal -

Performance documents are formal records used to evaluate and track an employee's work efficiency, achievements, compliance, and overall contribution to an organization. These documents help in performance reviews, appraisals, promotions, training, and workforce planning. Key functions of the performance documents include the following:

- Defining job roles, Key Performance Indicators (KPIs), and Key Result Areas (KRAs).
- Tracking performance over time, highlighting strengths and weaknesses.
- Documenting compliance with company policies, ethical standards, and industry regulations.

- Helping in fair evaluations, salary increments, and promotions based on documented performance.
- Identifying areas for training and professional growth.

The types of performance documents are included in the list provided below:

- KPI Scorecards
- Training & Development Record
- KRA Sheets
- Vendor & Procurement Reports
- Quality Audit Reports
- Employee Appraisal Reports
- Performance Review Forms

Performance documents play a critical role in evaluating sourcing managers in India's apparel industry. These documents track performance, set benchmarks, ensure compliance, and support decision-making during appraisals. Below are the key performance documents used, along with their purpose and significance in the appraisal process.

Document Name	Purpose	Usage in Performance Appraisal	Example Indian Apparel Company
KRA (Key Result Area) Sheet	Defines individual targets related to cost savings, quality control, and vendor management.	Used to evaluate sourcing manager's performance against assigned KRAs.	Go Colors (Go Fashion India Ltd.) tracks KRAs for vendor cost management.
KPI (Key Performance Indicator) Scorecard	Tracks sourcing efficiency, procurement costs, and supplier ratings.	Managers are rated on KPI-based achievements, such as cost savings or timely deliveries.	Blackberrys (Mohan Clothing Co.) uses KPI tracking to optimize sourcing efficiency.

Document Name	Purpose	Usage in Performance Appraisal	Example Indian Apparel Company
Procurement Cost Report	Documents cost analysis, price negotiation records, and budget adherence.	Assesses how well sourcing managers control procurement costs.	Allen Solly (Aditya Birla Fashion & Retail) uses procurement cost reports for cost optimization.
Vendor Performance Report	Evaluates supplier quality, compliance, and reliability.	Determines if a sourcing manager is effectively managing vendor relationships.	Being Human Clothing (Mandhana Industries) regularly evaluates vendor performance for ethical sourcing.
Quality Control Audit Reports	Records inspection results, defect rates, and rework statistics.	Helps in rating sourcing managers based on product quality and defect minimization.	Wrogn (Universal Sportsbiz Pvt. Ltd.) conducts strict quality audits to maintain brand standards.

Document Name	Purpose	Usage in Performance Appraisal	Example Indian Apparel Company
Compliance & Ethical Sourcing Reports	Tracks adherence to labour laws, sustainability, and ethical procurement.	Used in appraisals to measure alignment with company sustainability goals.	Fabindia ensures suppliers meet ethical and environmental standards. Fabindia Valgaria the consensab of Endinos and Encryptic Standard Standards. Fabindia Valgaria the consensab of Endinos and Encryptic Standard Standards. Andrew Fabrard Marigan, Standard MASO 2013-201, Mandre of Advisor Andrews. Mark V. Sandard Fabrard Marigan, Marian Standards. Mark V. Sandard Fabrard Marigan, Marian Standards. Mark V. Sandard Fabrard Marigan, Marian Standards. Mark V. Sandard Fabrard Marian Continues Marian Standards. Marian Standard Marian Continues Marian Standards. Marian St
Supply Chain & Logistics Reports	Measures efficiency in delivery timelines, warehouse management, and logistics costs.	Helps assess sourcing managers' ability to optimize supply chain processes.	Max Fashion (Landmark Group India) optimizes supply chain logistics through real-time tracking.
Market & Trend Analysis Reports	Documents research on fabric, fashion trends, and competitive analysis.	Used to evaluate the manager's ability to anticipate trends and adjust sourcing strategies.	Indian Terrain Fashions Ltd. analyses market trends to adjust procurement strategies. INDIAN TERRAIN
Performance Review Forms (Self & Manager Feedback)	Includes self- assessment, peer reviews, and supervisor evaluations.	Provides a holistic performance view based on feedback from multiple stakeholders.	Peter England (Aditya Birla Fashion & Retail) uses structured review forms for workforce evaluation.

Document Name	Purpose	Usage in Performance Appraisal	Example Indian Apparel Company
Training & Skill Development Records	Tracks participation in procurement training, ERP systems, and vendor negotiation workshops.	Helps in assessing professional growth and learning initiatives.	Van Heusen India (ABFRL) maintains training records for skill enhancement of sourcing managers. Van Heusen

Table 7.2.3: Performance Documents

Performance documents standardize employee evaluation, help managers make informed decisions, and support workforce development. In industries like apparel sourcing, structured performance tracking improves cost efficiency, vendor management, and supply chain operations.

Performance documents play a crucial role in ensuring transparency, accountability, and continuous improvement in an organization. In the Indian apparel industry, where sourcing managers oversee critical operations like cost negotiation, vendor management, quality assurance, and supply chain efficiency, performance documents help in evaluating their effectiveness and aligning their efforts with business goals. Here's a detailed breakdown of why they matter:

- Ensure Objective Appraisals: Performance documents eliminate biases in evaluations by providing structured and data-driven assessment methods. They establish clear performance benchmarks based on Key Performance Indicators (KPIs) and Key Result Areas (KRAs). With standardized evaluation criteria, appraisals are fair and consistent across all sourcing managers, ensuring merit-based career growth.
 - **Example:** A sourcing manager at Raymond is evaluated based on procurement efficiency and vendor compliance metrics rather than subjective opinions.
- Enhance Employee Growth: Performance evaluations identify areas where employees need further skill development, such as negotiation techniques, supplier relationship management, ERP and Al-based sourcing. HR and leadership teams use these insights to offer training programs and certifications that help employees grow. Continuous learning leads to higher job satisfaction, better performance, and long-term retention of top talent.
 - **Example:** At Reliance Trends, employees are encouraged to attend procurement workshops based on skill gaps identified in their performance appraisals.
- Ensures Sourcing Managers Contribute to Cost Savings, Quality Control, and Compliance: Performance documents help ensure that sourcing managers contribute effectively to organizational goals such as cost efficiency, quality and compliance. These records help track sourcing strategies and evaluate whether procurement decisions positively impact profitability.
 - **Example:** At ABFRL (Aditya Birla Fashion & Retail), procurement managers are assessed based on how well they optimize sourcing costs without compromising product quality.

• Improve Decision-Making: Appraisal decisions become data-backed rather than based on assumptions or favouritism. Performance documents provide insights into who deserves a promotion, salary increment, or additional responsibilities. They also highlight areas of improvement, helping HR and management identify training needs.

Example: At Madura Fashion & Lifestyle (Louis Philippe, Van Heusen), performance records guide promotions by measuring cost savings, delivery timelines, and vendor negotiation skills.

7.2.3 Strict Adherence to Performance Activities by the Subordinates

In the highly competitive apparel industry, sourcing managers and their subordinates play a pivotal role in ensuring efficient procurement, cost control, vendor management, and quality assurance. To meet organizational objectives, subordinates must strictly adhere to performance activities that align with Key Performance Indicators (KPIs) and Key Result Areas (KRAs).

The key aspects of strict adherence to performance activities include the following:

1. Compliance with Sourcing Protocols and Vendor Guidelines

Subordinates must follow predefined vendor selection criteria, ensuring compliance with company policies and government regulations. Regular due diligence and audits must be conducted to verify supplier reliability and ethical sourcing.

Example: TCNS Clothing Co. Ltd. (W, Aurelia, Elleven) follows a stringent vendor on-boarding and ethical sourcing process, ensuring all partners comply with sustainability and labour regulations.



Fig. 7.2.1: Brands by TCSN clothing

2. Meeting Procurement Timelines and Cost Targets

Ensuring that sourcing activities adhere to budget constraints and deadlines is essential to maintaining smooth operations. Subordinates must track price negotiations, procurement costs, and supplier delivery schedules to avoid cost overruns.

Example: Cantabil Retail India Ltd. enforces strict cost-saving measures and deadline-driven procurement processes to optimize production efficiency.



Fig. 7.2.2: Cantabil Retail Company

3. Quality Assurance and Inspection Compliance

Following rigorous quality control (QC) procedures ensures that sourced materials meet company standards. Conducting pre-production, in-line, and final inspections is mandatory to minimize defects and reduce rework.

Example: Blackberrys (owned by Mohan Clothing Co.) enforces three-stage quality checks to maintain the premium standards of its apparel line.

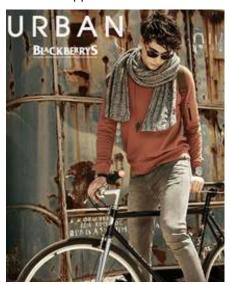


Fig. 7.2.3: Blackberry garments

4. Ethical Sourcing and Sustainability Compliance

Subordinates must ensure vendors adhere to sustainability initiatives, such as organic fabric sourcing, water-efficient dyeing, and reduced carbon emissions. Following ethical labor practices, including fair wages and workplace safety, is a key requirement.

Example: Being Human Clothing partners with sustainable fabric manufacturers to align its sourcing strategies with ethical fashion goals.



Fig. 7.2.4: Being Human Clothing

5. Supply Chain Coordination and Logistics Optimization

Subordinates must actively track and manage inventory, shipment schedules, and warehousing to prevent delays. Coordination with logistics teams is crucial for on-time delivery and cost reduction in supply chain management.

Example: V-Bazaar Retail Pvt. Ltd. employs Al-based logistics tracking systems to ensure timely deliveries and minimal storage costs.



Fig. 7.2.5: V Bazaar Retail Company

6. Strict Documentation and Performance Reporting

Maintaining accurate procurement records, vendor contracts, and compliance reports is mandatory. Performance tracking documents such as KPI scorecards, vendor performance reports, and audit records must be updated regularly.

Example: John Players (recently acquired by Reliance Retail) uses digital ERP-based performance tracking systems to improve vendor accountability and procurement efficiency.

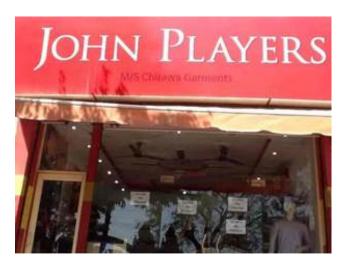


Fig. 7.2.6: John Players

7. Continuous Learning and Skill Enhancement

Subordinates must participate in training programs, workshops, and technology-based sourcing initiatives to stay updated with industry trends. Adoption of Al-driven procurement tools and ERP systems enhances efficiency.

Example: Neva Garments Ltd. invests in advanced training modules for sourcing and procurement teams to optimize supplier relations and cost efficiency.



Fig. 7.2.7: Neva Garments

Strict adherence to performance activities by subordinates in sourcing management is critical to achieving efficiency, cost savings, and quality excellence in the Indian apparel industry. By ensuring compliance with organizational directives, quality control, ethical sourcing, and supply chain optimization, subordinates help maintain a competitive edge in the market. Organizations that enforce structured performance monitoring and training programs benefit from improved procurement operations, smoother workflows, and higher profitability.

7.2.4 Assessing Performance Delivered by the Subordinates

Assessing the performance of subordinates in sourcing management is crucial for ensuring procurement efficiency, cost control, vendor relationship management, quality assurance, and compliance. A structured performance assessment helps in identifying strengths, areas for improvement, and training needs while aligning individual contributions with the company's strategic goals. The key methods for assessing the subordinates' performance by the sourcing managers are included below:

Methods	Activities	Examples
KPI Scorecards	KPI scorecards track quantitative and qualitative performance metrics such as procurement cost, on-time delivery rates and supplier compliance levels	Go Colors (Go Fashion India Ltd.) uses KPI scorecards to monitor procurement efficiency and vendor reliability for its fast-moving product categories.
KRA Performance Evaluations	KRAs define specific sourcing-related targets that subordinates must achieve, such as Vendor on-boarding, quality control, defect reduction and negotiation success rate	The House of Anita Dongre (AND, Global Desi) uses KRA-based assessments to track sourcing managers' ability to maintain sustainable sourcing partnerships.
Vendor Feedback & Relationship Management Assessment	 Supplier and vendor feedback plays a key role in assessing negotiation skills, communication, and contract management of sourcing subordinates. Feedback criteria include: Timely Payments & Order Placements (avoiding delays in procurement). Ethical Sourcing Practices 	Being Human Clothing (Mandhana Industries Ltd.) collects vendor feedback to assess how well sourcing subordinates build long-term supplier relationships.
Procurement Cost and Budget Adherence Reports	Regular cost analysis and budget reports measures cost Savings Achieved, price negotiation Effectiveness and waste Reduction in Procurement.	Rupa & Company Ltd. (Rupa, Euro, Bumchums) tracks sourcing managers on their ability to secure cost-effective deals without compromising fabric quality.
Quality Control & Inspection Reports	 Subordinates are evaluated based on their ability to maintain fabric quality, stitching accuracy, and final product standards. Key assessment metrics include defect rates and rework percentage as well as supplier compliance with AQL (Acceptable Quality Level) Standards. 	V-Bazaar Retail Ltd. ensures that its sourcing team maintains low defect rates by rigorously tracking quality control reports.
Compliance and Ethical Sourcing Performance	Performance is assessed based on adherence to labour Law Compliance ensuring suppliers meet ethical labour standards, as well as sustainable sourcing practices	Kalamandir (Sai Silks Ltd.) ensures compliance with sustainability standards and evaluates sourcing managers on ethical procurement practices.

Methods	Activities	Examples
Logistics & Supply Chain Efficiency Reports	 Performance metrics in supply chain management include: On-Time Order Fulfilment Rates. Inventory Turnover Ratios Freight & Logistics Cost Control 	Campus Active wear Ltd. assesses logistics performance to streamline the delivery of athleisure and sportswear products.
Self-Assessment & Managerial Feedback Reports	 Subordinates complete self-evaluations based on their achievements, challenges, and professional growth. Performance is further validated through peer reviews and manager feedback. 	Fynd (Arvind Internet Ltd.) integrates self-appraisal reports with manager reviews to optimize sourcing team performance in fast fashion retail.

Table 7.2.4: Methods for performance assessment

By integrating tools like KPI scorecards, KRA tracking, vendor feedback, cost reports, and quality audits, sourcing managers in the Indian apparel industry can effectively evaluate their teams. The inclusion of new industry examples such as Go Colors, Being Human Clothing, V-Bazaar, and Campus Activewear provides a fresh perspective on performance measurement.

Summary



- Apparel sourcing in India follows structured guidelines such as vendor selection, cost negotiation, quality control, logistics optimization, and sustainability to ensure efficient procurement and compliance with industry standards.
- The use of ERP systems, block-chain, AI, and Big Data in sourcing and procurement enhances supply chain transparency, inventory forecasting, and overall operational efficiency.
- Procurement teams play a crucial role in sourcing cost-effective materials, ensuring product quality, managing vendor relationships, and optimizing logistics to maintain competitiveness and sustainability in the global market.
- Companies emphasize ethical sourcing by adhering to lab or laws, prohibiting child labour, and promoting eco-friendly materials to maintain brand reputation and regulatory compliance.
- Sourcing managers in India's apparel industry use tools such as Power BI, SAP ERP, Oracle NetSuite, and Higg Index to monitor procurement efficiency, vendor management, cost control, and sustainability compliance.
- Performance tracking relies on KPI scorecards, KRA sheets, vendor reports, and quality audit reports to assess sourcing managers' efficiency in procurement, logistics, and cost optimization.
- Structured performance evaluations eliminate bias by using standardized documents and KPIs, ensuring objective assessments, merit-based promotions, and targeted skill development programs.
- Strict adherence to performance activities is crucial for sourcing subordinates, including compliance
 with vendor guidelines, procurement timelines, quality control, sustainability practices, and supply
 chain optimization.
- Self-assessments and managerial feedback reports enhance performance evaluation by incorporating peer reviews, professional growth tracking, and structured performance insights.



Multiple-choice Question:

- 1. Which of the following is NOT a key activity in vendor selection?
 - a. Conducting due diligence on suppliers
 - b. Verifying certifications like ISO 9001 and GOTS
 - c. Implementing ERP systems for inventory management
 - d. Assessing factory capabilities and compliance
- 2. What is a key benefit of adhering to sustainability guidelines in apparel sourcing?
 - a. Reducing procurement costs through bulk buying
 - b. Improving factory production speed
 - c. Reducing carbon footprint and promoting eco-friendly materials
 - d. Increasing tax exemptions for imported fabrics
- 3. Which of the following tools is used to track procurement efficiency and purchase requisitions in the Indian apparel industry?
 - a. Power BI

b. Coupa Procurement Software

c. Higg Index

- d. Blockchain-based Supply Chain Tools
- 4. What is the primary purpose of performance documents in the appraisal process of sourcing managers?
 - a. To replace procurement software
 - b. To maintain subjective evaluation reports
 - c. To track performance, ensure compliance, and support decision-making
 - d. To eliminate vendor negotiations
- 5. Which of the following is NOT a key aspect of strict adherence to performance activities for subordinates in sourcing management?
 - a. Compliance with sourcing protocols and vendor guidelines
 - b. Ignoring procurement cost targets to prioritize quality
 - c. Quality assurance and inspection compliance
 - d. Ethical sourcing and sustainability compliance

Descriptive Questions:

- 1. Explain the role of crisis management in apparel sourcing and describe how a company can mitigate supply chain disruptions.
- 2. Discuss the importance of ethical sourcing in the apparel industry and provide two examples of companies implementing ethical practices.
- 3. Explain the role of KPI and KRA tools in evaluating the performance of sourcing managers in the Indian apparel industry with examples of tools used.
- 4. Discuss the significance of performance documents in ensuring fair appraisals, employee growth, and effective decision-making in apparel sourcing.
- 5. Explain how KPI scorecards and KRA performance evaluations help in assessing the performance of subordinates in sourcing management.

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Organizational set-up of a Garment Manufacturing unit

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Overview of Employee Performance Appraisal System











Unit 8.1: Organisation's Procedures Regarding Record Keeping



– Key Learning Outcomes 🙄

By the end of this module, the participants will be able to:

- 1. Explain the basics of Computer operation and its applications such as spread sheets etc.
- 2. Explain how to maintain old records
- 3. Interpret the organisation's procedures related to record keeping
- 4. Adhere to work instructions defined for maintaining records of internal and external communications

UNIT 8.1: Organisation's Procedures Regarding Record Keeping

Unit Objectives



By the end of this unit, the participants will be able to:

- 1. Discuss the maintenance of record keeping
- 2. List of the computer operations and its required applications
- 3. Identify the work instructions in maintaining records for external and internal communications

8.1.1 Computer Operations and Its Applications Required

In today's digital era, computer literacy is essential for apparel sourcing managers in India to efficiently manage procurement, track supplier data, and streamline sourcing operations. A strong understanding of basic computer operations and relevant software applications, such as spread-sheets and enterprise resource planning (ERP) tools, enhances efficiency, accuracy, and decision-making in sourcing processes.

The Basic Computer Operations

Sourcing managers must develop a fundamental understanding of computer hardware, operating systems, internet tools, and cyber-security to ensure efficient operations.

1. Understanding Computer Systems

• Hardware Components:

Sourcing managers should be familiar with essential computer hardware, including:

- CPU (Central Processing Unit): The core component that processes data and executes commands.
- **Storage Devices:** Hard disk drives (HDD), solid-state drives (SSD), and external storage devices for data management.
- o **Input Devices**: Keyboards, mice, barcode scanners (used for inventory tracking), and touchscreens.
- o **Output Devices:** Monitors, printers, and external displays for reports and presentations.



Fig. 8.1.1: Input and Output Devices

• Operating Systems (OS):

Sourcing managers should be proficient in using:

- o **Windows OS:** The most commonly used operating system in corporate environments, offering access to business applications such as Microsoft Excel and Tally ERP.
- o macOS: It used in design and marketing-related tasks within the apparel industry.
- o **Linux:** Sometimes used for specialized applications and secure server-based operations.



Fig. 8.1.2: Operating System

• File Management:

Proper file management ensures easy retrieval of procurement-related documents. Important tasks include:

o Creating, naming, and organizing files systematically. Using folders and subfolders is effective to manage supplier contracts, invoices, and reports. Learning on how to use search functions is beneficial to locate specific files quickly. Regular check-up and deleting unnecessary files to free up storage space is included in proper file management.



Fig. 8.1.3: Elements of File Management

2. Internet and Email Communication

With globalization in the apparel industry, sourcing managers frequently communicate with suppliers, buyers, and logistics providers. Internet and email proficiency is essential for:

• Web Browsing for Supplier Research:

Use of search engines such as Google and Bing is valid to find suppliers, compare prices, and check product availability. Visit to supplier websites, e-marketplaces like Alibaba, TradeIndia, and IndiaMART is effective for online sourcing. Utilizing online forums and trade associations is essential to stay updated on industry trends and regulations.



Fig. 8.1.4: Web browing

• Email Management and Business Communication:

Using Gmail, Outlook, or Thunderbird is sufficient to send and receive business emails. Organizing emails into folders such as Supplier Quotes, Invoices and Urgent Orders is efficient for tracking. Attaching and downloading purchase orders, contract agreements, and financial statements securely. Setting up of automated email responses is beneficial to acknowledge receipt of supplier queries.



Fig. 8.1.5: Example of Invoice

• Cloud-Based File Sharing and Collaboration:

Google Drive, One-Drive, Drop-box allow sourcing managers to store and access important documents remotely. Supplier contracts and price negotiations effectively and securely among the suppliers in shared folders through permissions. Multiple team members can edit sourcing lists, reports, and quality checklists simultaneously.



Fig. 8.1.6: Cloud-based applications

3. Data Security and Backup

With large volumes of sensitive procurement data, sourcing managers must follow best practices for security and data management.

Password Protection and Access Control:

Using strong passwords with a mix of letters, numbers, and symbols is effective. Implementing two-factor authentication (2FA) is required for added security. Limited access to confidential files is beneficial for authorized personnel only.

• Regular Data Backup Practices:

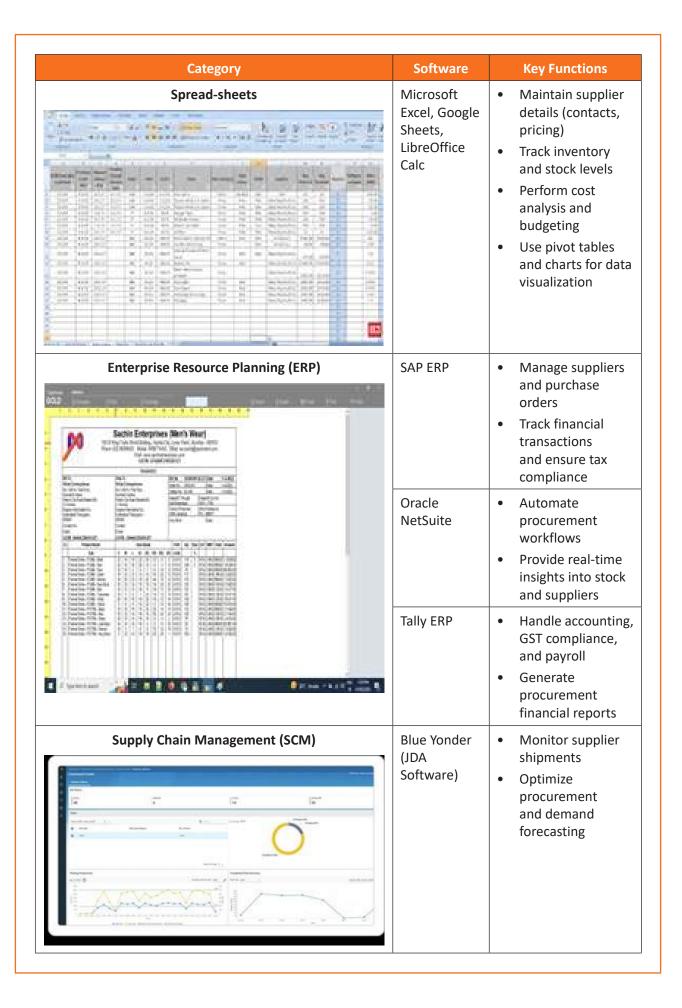
Set-up of automated backups is created to prevent data loss due to system failures. Using external hard drives and cloud storage for redundant backups. Scheduling periodic backups of important records, such as supplier agreements and transaction logs is beneficial.

• Awareness of Cyber security Threats:

Recognizing phishing emails and avoiding clicking on suspicious links. Keeping antivirus software updated to prevent malware infections. Encryption of sensitive procurement data can be beneficial before sharing it online.

Key Computer Applications for Apparel Sourcing Managers

Managers must be proficient in various software applications, including spread-sheets, enterprise resource planning (ERP) systems, supply chain management (SCM) software, and presentation tools to optimize sourcing operations.



Category	Software	Key Functions
	SAP Ariba	 Facilitate supplier collaboration and contract management Automate procurement approvals and payments
	TradeBeyond	 Track global sourcing and compliance Manage supplier audits and sustainability reports
Presentation & Documentation	Microsoft Word / Google Docs	 Draft purchase agreements, compliance reports, and evaluations Use templates for standardizing procurement documents
A description on the first control of the first con	Microsoft PowerPoint / Google Slides	 Present supplier comparisons and cost analyses Use charts and info-graphics for procurement

Table 8.1.1: Applications used for organisational procedures

Apparel sourcing managers must be proficient in basic computer operations and industry-specific software applications to streamline procurement activities, maintain supplier records, and analyse sourcing costs effectively. By mastering spread-sheets, ERP and SCM systems, and data security best practices, sourcing professionals can enhance operational efficiency and make data-driven decisions in the ever-evolving apparel industry.

8.1.2 Maintenance of Record Keeping

Record keeping is the process of systematically collecting, storing, managing, and maintaining documents and information related to an organization's activities, transactions, and operations. It ensures that essential data is preserved for future reference, legal compliance, decision-making, and accountability. Key aspects of record keeping include the following:

- Maintenance of records for a legally required period and securely disposing of out-dated or unnecessary documents.
- Records are kept in physical (paper-based) or digital (electronic) formats.
- Records of financial transactions, procurement details, employee records, contracts, and other essential business data are maintained.

Maintaining records is essential for guaranteeing adherence to regulatory standards, boosting transparency, and enabling effective procurement procedures. Companies may improve decision-making and risk management while adhering to financial, tax, and procurement rules by keeping accurate and well-organized records. Source managers must implement best practices for document retention, whether in electronic or physical formats, in light of changing regulatory frameworks and business needs. In order to guarantee efficient operations and accountability, this guide covers the essential components of record-keeping, including legal requirements, procurement paperwork, human resources records, and organizational regulations.

Effective record-keeping enhances transparency, minimizes risks, and enables better decision-making. A detailed breakdown of the essential components of record-keeping in apparel sourcing is provided below:

• Supplier Records and Procurement Documentation

Maintaining accurate supplier records is critical for tracking sourcing activities, ensuring supplier reliability, and facilitating seamless procurement. Sourcing managers should focus on:

- o **Supplier Profiles:** Maintaining up-to-date records of suppliers, including their business details, contact information, production capacity, and specialization in fabric or garment categories.
- o **Contracts and Agreements:** Documenting all formal agreements, including terms and conditions, pricing structures, payment terms, and liability clauses to safeguard the company's interests.
- Certifications and Compliance Documents: Storing relevant certifications such as SEDEX, SA8000, GOTS (for organic textiles), and Fair Trade certifications to ensure that suppliers meet ethical and environmental standards.
- o **Purchase Orders (POs) and Invoices:** Keeping a detailed record of purchase orders, invoices, and payment receipts to track financial transactions and ensure transparency in sourcing.
- o **Price Negotiation Records:** Documenting discussions and agreed-upon rates to avoid conflicts and assist in cost analysis for future sourcing decisions.
- o **Supplier Performance History:** Maintaining past records of supplier performance, such as their adherence to delivery timelines, quality standards, and responsiveness to issues.

Compliance and Ethical Sourcing

The Indian apparel industry is highly regulated, requiring sourcing managers to ensure compliance with national labour laws, environmental policies, and international trade regulations. Key record-keeping practices in this area include:

 Labour Law Compliance: Maintaining records that confirm suppliers comply with minimum wage laws, working hours, and employee welfare regulations under the Factories Act, 1948, and the Minimum Wages Act, 1948.

- Environmental Regulations: Documenting adherence to environmental sustainability practices, such as water and waste management, restricted chemical use, and energy-efficient production techniques.
 - International Compliance Standards: Keeping records of supplier certifications such as:
 - SEDEX (Supplier Ethical Data Exchange): Ensures ethical labor and health & safety standards.
 - SA8000 (Social Accountability Certification)
 - GOTS (Global Organic Textile Standard)
- o **Factory Audit Reports:** Maintaining reports of periodic supplier audits to assess working conditions, worker safety, and ethical compliance.
- o **Corrective Action Plans (CAPs):** Documenting any non-compliance issues found in supplier audits and tracking corrective measures taken by suppliers.
- **Sustainability Initiatives:** Keeping records of eco-friendly sourcing efforts, such as sustainable fabrics, recycling programs, carbon footprint reductions, and fair-trade practices.

Quality Control and Production Tracking

Ensuring the quality of garments and raw materials is crucial in apparel sourcing. Keeping thorough records related to quality control and production tracking helps sourcing managers maintain high standards and improve supplier relationships. The key functionalities include the following:

- o **Inspection Reports:** Documenting quality control checks conducted at different production stages, including fabric inspection, stitching checks, and final product evaluation.
- o **Defect and Rework Records:** Keeping track of defects found in sourced materials and garments, along with corrective measures taken.
- o **Supplier Performance Metrics:** Maintaining records of supplier compliance with quality standards, rejection rates, and adherence to production deadlines.
- o **Production Timelines and Shipment Details:** Documenting order processing schedules, expected delivery dates, and actual shipment timelines. Track records of delays, disruptions, and reasons for any production or logistics failures can be established.
- Customer Feedback and Returns: Recording customer complaints, product returns, and refund claims related to quality issues. Analysis of recurring quality problems is essential to make informed decisions about supplier selection.

• Technology Integration for Efficient Record-Keeping

Modern technology enables sourcing managers to automate record-keeping, reduce paperwork, and enhance efficiency in tracking sourcing operations. Digital solutions improve accuracy, security, and accessibility of records.

- Enterprise Resource Planning (ERP) Systems: ERP software like SAP, Oracle, or Microsoft Dynamics helps centralize supplier records, procurement data, and financial transactions. It manages to integrate inventory tracking, production management, and compliance reporting into a single platform.
- Supply Chain Management (SCM) Software: It automates procurement workflows, real-time tracking of orders, and supplier communication. It helps maintain an organized database of purchase orders, invoices, and contract documents.
- Cloud-Based Record Keeping: These enable remote access to sourcing records, reducing dependency on physical files. It provides backup solutions to prevent data loss and enhance security.
- o **Block chain for Transparency:** Ensures data integrity and traceability by recording all transactions in an immutable ledger. It enhances accountability in ethical sourcing by tracking every stage of the supply chain.

o **Artificial Intelligence (AI) and Data Analytics:** Al-powered tools can analyse sourcing trends, predict demand, and suggest cost-optimization strategies. It helps in identifying the most reliable suppliers based on past performance and market trends.

• Financial and Legal Record Maintenance

Accurate financial and legal record-keeping is essential for audit readiness, financial transparency, and resolving disputes. Sourcing managers must ensure proper documentation of all monetary transactions and legal agreements.

- Financial Transactions and Payments: Keeping records of all payments made to suppliers, including bank transfers, tax deductions, and currency exchange details for international procurement. It maintains documentation of credit terms, advance payments, and outstanding balances.
- Tax Compliance Documentation: Retaining GST invoices and tax-related paperwork to comply with Indian tax regulations. It manages in ensuring customs duty records are maintained for imports and exports.
- Legal Agreements and Trade Policies: Keeping copies of non-disclosure agreements (NDAs), vendor contracts, and trade agreements is included. It ensures records of import/export regulations and trade compliance requirements are updated.
- Audit and Government Inspection Records: Maintaining all procurement records is required for statutory audits and government inspections. It keeps documentation related to factory inspections, labour law compliance checks, and environmental assessments.

Maintaining supplier transparency, guaranteeing ethical and regulatory compliance, and streamlining supply chain operations all depend on sourcing managers in the Indian garment sector keeping accurate records. Sourcing managers may improve efficiency, lower risks, and support ethical and sustainable sourcing processes by utilizing digital tools, enforcing stringent documentation requirements, and staying up of legal developments.

Importance of maintaining robust records is provided in the list below:

- 1. Enhances Transparency: Allows easy tracking of procurement processes and supplier interactions.
- 2. Ensures Compliance: Prevents legal and ethical violations, reducing risks of penalties or bans.
- 3. Improves Efficiency: Streamlines vendor selection, payment processing, and inventory management.
- 4. Facilitates Decision-Making: Helps in analysing supplier performance and cost optimization.

By implementing systematic record-keeping practices, sourcing managers in the Indian apparel industry can ensure smooth operations, regulatory compliance, and long-term business sustainability.

8.1.3 Work Instructions in Maintaining Records of External and Internal Communications

Efficient communication is essential for smooth sourcing operations in the fast-paced, dynamic Indian garment sector. In order to cooperate with suppliers, guarantee compliance, monitor orders, and preserve transparency in procurement procedures, apparel sourcing managers communicate extensively both internally and externally. Decision-making, legal compliance, conflict resolution, and workflow efficiency are all aided by the proper documenting of these conversations.

The track records of internal and external communications amongst clothing sourcing managers are described in this document. It goes on how to keep meeting notes, emails, supplier correspondence, contract paperwork, and compliance data organized. It also emphasizes how record-keeping may be streamlined by utilizing technology-driven solutions like cloud storage, ERP, CRM, and SCM.

General guidelines for communication record-keeping involve the list provided below:

Apparel sourcing managers must follow structured guidelines for recording internal and external communications to ensure smooth operations, transparency, and compliance. Proper documentation not only helps in tracking business transactions but also serves as a reference for dispute resolution, legal audits, and performance evaluations. The following are essential guidelines for maintaining systematic communication records.

- Standardizing documentation practices helps ensure consistency, easy retrieval, and legal compliance. All internal and external communications should follow a structured format with clearly defined naming conventions and templates.
- Proper storage ensures that communication records are easily retrievable, secure, and protected from unauthorized modifications.
- Maintaining records for the appropriate duration ensures compliance with government regulations, industry standards, and company policies.

Internal communication record-keeping

Maintaining accurate records of internal communication is crucial for ensuring consistency, accountability, and informed decision-making in apparel sourcing. Proper documentation helps track discussions, policies, and approvals, reducing the risk of miscommunication and improving workflow efficiency.

		Work Instructions	Storage and Availability
Meeting Documentation	Maintain records of sourcing decisions, supplier evaluations, and internal strategies.	 Record Minutes of Meeting (MoM) with: Date, time, attendees, and roles. Agenda items and key discussions. Decisions made and assigned responsibilities. 	 Store notes in shared folders (Google Drive, OneDrive, SharePoint). Use project management tools (Trello, Asana, Microsoft Teams) for tracking. Conduct periodic reviews of action items.
Internal Memos and Notices	Document policy changes, sourcing strategies, and procurement decisions.	 Draft memos with: Clear subject line. Date and sender information. Concise summary of the update. 	 Maintain a log of issued memos (date, recipient, subject). Distribute via email, ERP dashboards, or intranet portals. Archive past memos for compliance and reference.

		Work Instructions	Storage and Availability
Internal Email Correspon- dence	Track approvals, escalations, and sourcing discussions.	 Organize emails using filters and folders (e.g., "Supplier Negotiations," "Purchase Orders," "Compliance"). Tag emails with priority levels for follow-ups. 	 Save critical emails in PDF format for legal/audit use. Use email archiving solutions (Microsoft Outlook auto-archive) for optimized storage.

Table 8.1.2: Internal Communications for record-keeping

Effective internal communication record-keeping ensures transparency, accountability, and compliance in apparel sourcing operations. By following these structured work instructions, sourcing managers can streamline internal communications, improve efficiency, and ensure accurate record-keeping.

External communication record-keeping

External communication in apparel sourcing involves extensive interactions with suppliers, buyers, and compliance bodies. Proper documentation of these communications is essential for maintaining transparency, tracking agreements, and ensuring compliance with contractual and regulatory obligations.

Category	Purpose	Work Instructions
Supplier Cor- respondence (Emails, Calls, and Negotia- tions)	Track negotiations, order confirmations, and disputes.	 Use CRM software (Zoho CRM, Salesforce, SAP Ariba) to document all supplier interactions. Record date, time, supplier name, contact person, discussion summary, and next steps. Store email chains in supplier-specific cloud folders (Google Drive, OneDrive). Create written summaries of critical phone conversations.
Compliance and Audit Records	Ensure adherence to ethical sourcing and regulatory standards.	 Document supplier audit reports, compliance certifications (SEDEX, OEKO-TEX, GOTS). Store inspection reports and non-compliance notifications systematically. Maintain logs of factory visits, including dates, findings, and corrective actions taken. Archive compliance records for future supplier evaluations and audits.

Category	Purpose	Work Instructions
Customer and Buyer Commu- nications	Track order specifications, quality feedback, and shipment updates.	 Record buyer requests, order modifications, and approvals in ERP or CRM systems. Ensure all modifications are confirmed via email to prevent disputes. Log customer complaints and supplier responses. Store shipment tracking details, invoices, and delivery confirmations in an SCM system. Maintain a history of past orders for performance analysis and decision-making.
Purchase Orders and Contract Documentation	Maintain legally binding records of transactions	 Generate and store Purchase Orders (POs) in ERP systems (SAP, Oracle NetSuite, Tally ERP). Ensure POs include supplier details, product specifications, payment schedules, and delivery timelines. Maintain physical and digital copies of contracts. Contracts must include clear terms, authorized signatures, and dispute resolution clauses.

Table 8.1.3: External Communications for record-keeping

Effective record-keeping of external communications is essential for tracking supplier interactions, ensuring compliance, and managing buyer relations in the apparel sourcing industry. All order specifications, quality feedback, and shipment updates should be recorded in ERP or CRM systems. All purchase orders (POs) should be managed within ERP systems (SAP, Oracle NetSuite, Tally ERP) and include supplier details, product specifications, payment schedules, and delivery timelines. Sourcing managers should document all emails, calls, and negotiations using CRM software (Zoho CRM, Salesforce, SAP Ariba). Logs of compliance checks and corrective actions must be stored for future audits and supplier evaluations. Apparel sourcing managers can ensure efficient supplier collaboration, legal compliance, and streamlined sourcing operations.

Summary



- Identify Friend or Foe (IFF) Protocol system is used in security operations to differentiate between friendly and hostile entities, ensuring accurate threat identification.
- Effective coordination enables seamless communication, intelligence sharing, and a well-organized response to security threats.
- Legal regulations dictate the proper handling, possession, and transportation of firearms by security personnel to maintain safety and compliance.
- Evaluating potential threats in advance helps security teams develop proactive strategies to prevent security incidents.
- Accurate documentation of security incidents ensures proper investigation, legal accountability, and effective future risk mitigation.
- Strict security measures, such as armed escorts and route planning, help minimize risks like theft, robbery, or insider threats.
- Maintaining constant awareness and responding quickly to threats is essential to prevent and manage security breaches effectively.

Exercise

Multiple-choice Question:

- 1. What is the primary purpose of the Identify Friend or Foe (IFF) protocol in security operations?
 - a. To prevent unauthorized access to classified documents
 - b. To distinguish between allies and potential threats
 - c. To enhance communication between law enforcement and civilians
 - d. To increase the effectiveness of security drills
- 2. Which of the following is NOT a key component of effective coordination among security units?
 - a. Standardized communication protocols
 - b. Clear role allocation
 - c. Independent decision-making without consultation
 - d. Real-time intelligence sharing
- 3. Firearm legislation primarily aims to:
 - a. Allow unrestricted access to firearms for all citizens
 - b. Regulate the possession, use, and transportation of firearms
 - c. Reduce taxes on firearm purchases
 - d. Eliminate the use of firearms in law enforcement
- 4. Why is threat assessment crucial in security operations?
 - a. It helps security personnel respond effectively to emerging threats
 - b. It ensures that security teams operate without following standard protocols
 - c. It allows organizations to completely eliminate all security risks
 - d. It focuses solely on investigating past security breaches
- 5. What is the primary reason for maintaining vigilance in a security role?
 - a. To intimidate unauthorized personnel
 - b. To detect and respond to potential threats proactively
 - c. To make security personnel appear more professional
 - d. To minimize interactions with the public

Descriptive Questions:

- 1. Explain the importance of effective coordination among security units and how it impacts overall security operations.
- 2. Describe the process of conducting a proper threat assessment and how it aids in risk anticipation.
- 3. What are the key legal requirements for armed security personnel in relation to firearm handling and usage?
- 4. Discuss the importance of incident reporting and evidence preservation in security operations. Provide examples of how mishandling reports can affect legal proceedings.
- 5. What are the main security risks associated with unscheduled stops during the transportation of high-value assets, and how can these risks be mitigated?

Scan the QR codes or click on the link to watch the related videos





https://youtu.be/TPeIPci2_gA?si=z0YFT2tL6oai_2Oh

Basic Computer Operations

https://youtu.be/Vhrerx1r5_U?si=xkNqulyJ-Q5Q4c7a

Document and Record Management











9. Maintain Records about Procurement of Materials

Unit 9.1: Organization's Procedures for Disposal of Old Records



-Key Learning Outcomes 🙄

By the end of this module, the participants will be able to:

- 1. Explain the safe handling of tools and equipment used in pattern making. Describe the organization's procedures for disposal of old records.
- 2. Maintain updated records of approved vendors.
- 3. Maintain records related to communications with suppliers.
- 4. Maintain records related to interdepartmental communications for material requirements.
- 5. Maintain records related to complaints about purchased items and follow up for compensation/resolving issues.

UNIT 9.1: Organization's Procedures for Disposal of Old Records

Unit Objectives



By the end of this unit, the participants will be able to:

- 1. Discuss the disposal of old records
- 2. Identify the maintenance of updated records for approved vendors
- 3. List of maintaining records for the communication with the suppliers, related to interdepartmental communications, and complaints related to purchase items and follow-ups

9.1.1 Disposal of Old Records

Disposal of old records refers to the systematic process of discarding out-dated, irrelevant, or legally expired documents from an organization's records. This ensures data security, compliance with legal regulations, and efficient storage management. Disposal of old records is essential due to the following reasons:

- Prevents Data Overload: Frees up storage space and improves organization efficiency.
- Ensures Legal Compliance: Meets regulatory retention periods and avoids legal risks.
- Protects Confidential Information: Prevents unauthorized access to sensitive business data.
- Enhances Security: Reduces the risk of data breaches or misuse of out-dated records.
- Supports Sustainability: Encourages eco-friendly disposal methods like shredding and recycling.

Method of record disposal is provided in the picture below:

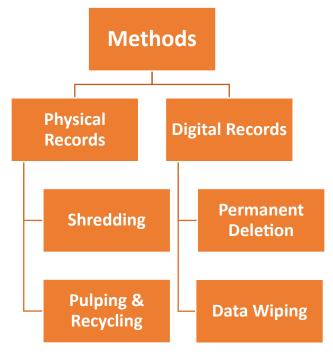


Fig. 9.1.1: Methods for record disposal

Organisations, especially in industries like apparel sourcing, must follow legal and operational guidelines for safe disposal to maintain compliance and security.

Maintaining a structured disposal process for old records is essential for data security, regulatory compliance, and efficient document management. Apparel sourcing managers, especially those handling stitched items, must ensure proper procedures for the disposal of records to protect sensitive business data while adhering to legal and operational requirements.

1. Record Retention Policy

Before disposing of records, organizations must follow industry and legal retention policies to ensure that critical documents are kept for the required period before being discarded.

Record Type	Retention Period	Purpose
Financial & Procurement Records (purchase orders, invoices, payment records)	5–7 years	Required for financial audits, tax compliance, and internal reviews.
Supplier Contracts & Agreements	At least 5 years post-expiry	Ensures legal reference in case of disputes or renewal decisions.
Compliance & Audit Reports	Minimum 3 years	Meets regulatory and buyer standards for ethical sourcing.
Quality Control & Inspection Reports	3–5 years	Used for supplier performance tracking and historical evaluations.

Organizations must define clear retention policies and store records in secure physical or digital archives before disposal.

2. Classification of Records for Disposal

To ensure efficient disposal, sourcing managers should categorize records based on their importance and necessity. The categories of records are given in the table below:

Category	Example	Action
Critical Records (Long-Term Storage)	Contracts, tax-related documents, legal agreements	Archived securely, not for disposal.
Obsolete & Non-Essential Records	Old supplier emails, out- dated communication logs, duplicate files	Marked for secure disposal.
Operational Records (Archived After Retention Period)	Procurement logs, audit reports, quality reports	Moved to archive after retention period, disposed of when obsolete.

Before disposal, managers should review retention policies and consult compliance or legal teams if necessary.

3. Secure Disposal Methods

Proper disposal ensures data confidentiality and compliance with legal standards. Apparel sourcing managers must use secure and approved methods to eliminate records.

Paper-Based Records

- **Shredding:** Physically destroying sensitive documents like contracts, invoices, and compliance reports to prevent unauthorized access.
- **Pulping & Recycling:** A sustainable disposal method where large volumes of old paper records are broken down and repurposed into new materials.

Digital Records

- Data Wiping: Securely erasing digital files from ERP (Enterprise Resource Planning), CRM (Customer Relationship Management), and SCM (Supply Chain Management) systems to prevent recovery.
- **Cloud Storage Management:** Deleting expired records and using automated retention settings in platforms like Google Drive, OneDrive, and SAP Ariba to ensure data is removed permanently.

4. Compliance with Legal & Ethical Guidelines

Sourcing managers must align disposal procedures with legal, regulatory, and ethical guidelines to avoid penalties and ensure responsible data management.

- Indian Companies Act & GST Regulations: Tax-related records must be retained for audits and follow government regulations for business transactions.
- Data Protection & Buyer Contracts: Ensure strict confidentiality as per Non-Disclosure Agreements (NDAs) and brand-specific sourcing agreements.
- **Sustainability Goals:** Collaborate with certified recycling agencies to dispose of records in an eco-friendly manner.
- **Legal & Compliance Reviews:** Before disposal, sourcing managers should consult legal teams to verify compliance with industry regulations and buyer contracts.

5. Documentation of Record Disposal

To maintain accountability and ensure a transparent disposal process, organizations must document all disposal actions. Essential disposal records are as follows:

- **Disposal Logbook:** Record date, type of records, disposal method, and responsible personnel for future audits.
- Approval from Management: Obtain formal approval from legal and compliance teams before disposing of critical records.
- Audit Trail: Maintain digital logs of deleted files and record disposal history for verification in case of disputes or regulatory inquiries.

The proper disposal of old records is a critical part of record management in apparel sourcing organizations. By following structured retention policies, categorizing records, using secure disposal methods, complying with legal standards, and maintaining clear documentation, sourcing managers can ensure efficient record management, prevent data breaches, and meet industry compliance standards.

9.1.2 Maintenance of Updated Records of Approved Vendors

For apparel sourcing managers in India to guarantee effective procurement, adherence to sourcing regulations, and solid supplier relationships, they must keep accurate and up-to-date records of approved vendors. Streamlining procurement processes, lowering risks, and guaranteeing quality consistency are all made possible by an organized approach to vendor record management.

Vendor Database Management

A centralized vendor database helps sourcing managers organize, retrieve, and analyze supplier-related information in a structured manner.

Key Components of Vendor Records are as follows:

Record Type	Details to be Maintained
Vendor Profile Information	Vendor name, registered company name, contact details, address, business registration details (GST, PAN, Import-Export Code, MSME registration).
Product and Service Offerings	List of raw materials, fabrics, trims, accessories, and services provided (e.g., embroidery, dyeing, finishing).
Pricing and Payment Terms	Agreed pricing per unit, bulk discounts, payment modes (LC, credit, cash), credit limits, and payment schedules.
Quality and Compliance Certifications	Certifications like SEDEX, OEKO-TEX, GOTS, SA8000, WRAP, and other sustainability or ethical sourcing documents.
Delivery and Performance History	Past order details, on-time delivery records, defect rates, returns, and vendor ratings.
Contract and Agreement Details	Signed agreements, NDAs, contract renewal dates, liability clauses, and dispute resolution terms.

Storage and Accessibility criteria for the vendors' record maintenance include the following:

- Maintain vendor records in ERP software (SAP, Oracle NetSuite, Tally, Zycus, Coupa) for structured record-keeping.
- Use cloud storage (Google Drive, OneDrive, SharePoint, SAP Ariba) to ensure real-time access across teams.
- Implement role-based access controls (RBAC) to protect sensitive data while allowing authorized personnel to update records.

Periodic Review

Regular updates and verification of vendor records are necessary to avoid out-dated information and ensure smooth procurement operations.

Update Type Frequency		Process	
General Vendor Profile Updates	Every 6 months	Verifying and updating contact details, GST information, and business registration status.	
Pricing and Terms Updates	Quarterly / As per contract terms	Checking for price fluctuations, renegotiate terms, and update discount structures.	

Update Type	Frequency	Process
Compliance & Certification Verification	Annually	Ensure valid compliance documents such as SEDEX, OEKO-TEX, BSCI, etc.and factory audits are available.
Performance Review & Evaluation	Every order cycle	Track key metrics like on-time delivery, defect rates, and service quality.

Best Practices for Updating Vendor Records are the following:

- Conduct vendor re-evaluation periodically based on quality, compliance, and reliability.
- Maintain a version history for modifications in vendor records.
- Set up automated alerts in ERP systems for contract renewals and compliance checks.
- Notify relevant departments (procurement, finance, legal) about major updates to avoid miscommunication.

Vendor Performance Tracking

A structured vendor performance monitoring system helps in identifying reliable suppliers and addressing performance issues proactively.

Evaluation Parameter	Key Metrics	
Delivery Performance	On-time delivery rate, lead time accuracy, adherence to committed schedules.	
Quality Standards	Defect rate, compliance with specifications, return rate, customer complaints.	
Pricing Competitiveness	Cost efficiency, stability in pricing, adherence to negotiated terms	
Compliance and Ethical Sourcing	Certification validity, labor law adherence, environmental sustainability commitments.	
Communication & Responsiveness	Speed of response to queries, resolution time for disputes, proactive engagement.	



Fig. 9.1.2: Tools used for performance tracking

Corrective Action Plan for Poor Performance:

- If a vendor repeatedly fails to meet expectations, initiate performance improvement plans (PIP).
- Conduct root cause analysis to identify key issues (e.g., capacity constraints, supply chain disruptions).
- Engage in collaborative problem-solving to support vendors in improving their services.

Vendor Approval

A systematic vendor approval and blacklisting process ensures that sourcing managers work only with reliable, compliant, and ethical suppliers.

New vendors must undergo a screening and on-boarding process before approval, known as the Vendor Approval Process that includes:

- Verification of business registration, tax compliance, and legal standing.
- Submission of quality assurance documents and certifications.
- Sample approvals and factory audits to ensure production capabilities and quality consistency.
- Negotiation and signing of service agreements, NDAs, and contract terms.

Vendors may be blacklisted or delisted for the following reasons:



Fig. 9.1.3: Vendor blacklisted and removal

Action Plan for Blacklisted Vendors:

- Maintain records of blacklisted vendors to prevent future engagement.
- Inform internal stakeholders (procurement, finance, and compliance teams) about delisted suppliers.
- Document reasons for removal and retain reports for legal and audit purposes.

Integration with Procurement

Vendor records should be integrated into procurement workflows and supply chain management systems to optimize efficiency.

Category	Best Practices		
Automated Purchase Order (PO) Generation	 Ensure only approved vendors are included in procurement. Track supplier inventory levels in ERP or SCM systems for real-time demand planning. Automate PO approvals and document retrieval for quick decision-making. 		
Real-Time Data Sharing	 Enable cross-functional access to vendor records for finance, quality control, compliance, and logistics teams. Use cloud-based vendor management platforms (SAP Ariba, Coupa, Zycus) for seamless updates and collaboration. 		
Risk Mitigation Strategies	 Maintain a backup list of alternate suppliers to mitigate disruptions. Implement supplier diversification strategies to avoid overdependence on a single vendor or region. Conduct regular risk assessments to anticipate potential supply chain challenges. 		

Disaster Recovery and Contingency Planning for the effective supply chain operations includes the following:

- Develop alternative sourcing strategies to address potential supply chain disruptions.
- Establish emergency stock reserves for critical raw materials.
- Maintain communication channels with multiple suppliers to ensure quick transitions if needed.

Maintaining updated records of approved vendors is essential for smooth procurement, regulatory compliance, and supplier performance optimization in the apparel industry. Sourcing managers must focus on:

- Regularly updating vendor databases to ensure accurate and current supplier information.
- Tracking vendor performance metrics to identify strengths and weaknesses.
- Implementing strict vendor approval and blacklisting policies to maintain sourcing integrity.
- Integrating vendor data with procurement and supply chain systems for improved efficiency and decision-making.

By following these structured procedures, apparel sourcing managers can enhance supplier collaboration, reduce procurement risks, and improve overall supply chain resilience.

9.1.3 Maintaining Records related to Communications with Suppliers

Effective communication record-keeping is essential for apparel sourcing managers in India to ensure transparency, compliance, and operational efficiency when dealing with suppliers. Given the complexities of global supply chains, keeping detailed records of supplier interactions help mitigate risks, streamline procurement, and enhance decision-making. Proper documentation allows sourcing managers to track negotiations, agreements, disputes, and supplier performance.

Communication Type	Purpose	Examples	Storage & Accessibility
Emails	Track negotiations, pricing, order confirmations, and contract discussions.	Price discussions, delivery updates, quality issue resolutions.	Organized email folders (e.g., "Supplier Negotiations," "Purchase Orders"), cloud storage (Google Drive, OneDrive).
Phone & Virtual Meetings	Record verbal agreements, issue escalations, and urgent updates.	Conference call summaries, supplier commitments, dispute resolutions.	Written summaries stored in shared folders, CRM software (Zoho CRM, Salesforce).
Contracts & Agreements	Maintain legally binding records of sourcing terms and conditions.	Supplier agreements, NDAs, MOUs, purchase orders.	ERP systems (SAP, Oracle NetSuite), physical filing for signed contracts.
Compliance & Audit Reports	Track supplier adherence to ethical and quality standards.	Factory audit reports, sustainability certifications (GOTS, OEKO-TEX, SEDEX).	Compliance tracking systems, supplier portals.
Delivery & Performance Reports	Assess supplier efficiency and reliability.	On-time delivery records, defect rates, performance evaluations.	Vendor management software, ERP dashboards.

Table 9.1.1.: Types of Supplier Communication Records

Best Practices for Managing Supplier Communication Records:

• Standardized Documentation

- o Use predefined templates for emails, meeting minutes, and agreements.
- o Ensure all records include date, supplier details, and discussion summary and next steps.
- o Maintain a naming convention (e.g., "Supplier Communication_ [Date] _ [Topic].pdf").

• Centralized Storage & Easy Access

- o Use ERP systems (SAP, Oracle, Tally) and cloud platforms (Google Drive, SharePoint) for storage.
- o Implement role-based access to protect sensitive records.

• Record Retention & Disposal

- o Retain purchase orders, contracts, and compliance records for at least 5 years.
- o Archive old records systematically, ensuring accessibility for audits and legal reference.
- o Securely dispose of out-dated records following data protection regulations.

9.1.4 Maintaining Records related to Interdepartmental Communications for Material Requirements

Efficient interdepartmental communication is crucial for ensuring the timely procurement and availability of materials in the apparel industry. Sourcing managers for stitched items must maintain structured records of communications between departments such as design, production, inventory, finance, and quality control to prevent material shortages, overstocking, or delays. Proper documentation enhances workflow coordination, decision-making, and compliance with procurement policies.

Key Aspects of Interdepartmental Communication Record-Keeping is as provided in the table:

Category	Purpose	Storage Method	Work Instructions
Material Requirement Planning (MRP) Communication Records	Ensure accurate forecasting of raw material needs based on production schedules.	ERP Systems (SAP, Oracle NetSuite, Tally)	 Maintain MRP requests from production teams, including fabric type, trims, accessories, and quantity requirements. Document all MRP approvals and modifications. Store logs in ERP systems (SAP, Oracle NetSuite, Tally).
Procurement Requests and Approvals	Track material requisition approvals and supplier allocation.	ERP, Digital Repositories (Google Drive, SharePoint)	 Maintain records of purchase requisition (PR) approvals from finance and management. Log internal discussions related to supplier selection, budget constraints, and lead times. Archive procurement approvals for audit compliance.
Quality and Compliance Coordination	Ensure sourced materials meet quality standards and regulatory compliance.	Compliance Databases, Google Drive, SharePoint	 Record discussions between quality control and sourcing teams regarding material testing, compliance reports, and defect analysis. Store quality inspection reports and compliance certifications (OEKO-TEX, GOTS, SEDEX, SA8000). Maintain corrective action reports for defective materials.
Meeting and Email Communication Logs	Track key decisions and interdepartmental discussions related to material procurement.	Google Drive, OneDrive, SharePoint, Email Archives	 Record meeting minutes covering material requirements, challenges, and procurement updates. Categorize email correspondence by topic (urgent approvals, supplier negotiations, quality feedback). Store logs in cloud-based platforms for easy retrieval.

Category	Purpose	Storage Method	Work Instructions
Inventory and Logistics Coordination	Align sourcing activities with warehouse capacity and logistics planning.	SCM Systems (SAP Ariba, Oracle SCM, Infor Nexus)	 Maintain logs of warehouse inventory reports shared between inventory and sourcing teams. Document material dispatch schedules and approvals. Use cloud-based supply chain management tools for real-time tracking.

Table 9.1.2: Key aspects of Interdepartmental Communication

Best Practices for Maintaining Interdepartmental Communication Records

- Use ERP-integrated communication tools to centralize records.
- Maintain a version history of purchase requests, quality assessments, and approvals.
- Implement access control measures to protect sensitive procurement data.
- Conduct periodic audits to ensure compliance and accuracy in record-keeping.

By implementing structured record-keeping practices, apparel sourcing managers can enhance collaboration, reduce procurement inefficiencies, and ensure seamless material flow across departments.

Maintaining structured records of interdepartmental contacts for material requests is critical for guaranteeing smooth coordination, transparency, and compliance in the garment supply chain. Using systematic documentation methods in MRP planning, procurement approvals, quality control, inventory management, and meeting logs, sourcing managers can increase efficiency, reduce errors, and promote supplier collaboration. The use of ERP systems, cloud storage, and digital technologies enables accessibility and data integrity, which leads to better decision-making and a more resilient supply chain.

9.1.5 Record Maintenance related to Complaints about Purchased Items and Follow Up for Compensation/Resolving Issues

Effective record-keeping of complaints about purchased items is critical for garment sourcing managers in stitched items in India to ensure supplier responsibility, speed dispute resolution, and maintain quality standards. Proper documentation aids in tracking product faults, vendor performance, and financial recovery while also ensuring compliance with buyer expectations and industry regulations.

• Logging Complaints about Purchased Items

The objective of logging complaints about purchased items is to ensure a structured approach to tracking, managing, and resolving defects in materials supplied for stitched apparel items. Accurate documentation helps sourcing managers hold suppliers accountable, prevent recurring issues, and improve procurement efficiency. It also supports audit readiness and compliance with industry standards and buyer expectations.

Parameter	Details to be Maintained			
Purchase Order (PO) Reference	Unique PO number for traceability.			
Supplier Details	Name, location, contact person details.			
Issue Description	Defects, wrong specifications, damages.			
Quantity Affected	Number of defective items and impact on production.			
Supporting Documents	Inspection reports, photos, test results.			
Storage Location	ERP systems (SAP, Oracle NetSuite, Tally) or supplier manageme tools (SAP Ariba, Zycus, Coupa).			

• Tracking Supplier Responses

Tracking Parameter	Details to be Maintained		
Supplier Acknowledgment	Date and confirmation of issue receipt.		
Proposed Corrective Action	Replacement, repair, price adjustment, credit note.		
Resolution Timeline	Agreed date for issue resolution.		
Follow-Up Actions	Emails, call logs, meetings for follow-up.		
Documentation	Store records in Google Drive, OneDrive, SharePoint.		

• Compensation and Financial Adjustments

Compensation Parameter	Details to be Maintained	
Credit Note / Refund Request	Agreed compensation type (refund, credit note, penalty).	
Approved Amount	Refund or adjustment amount, invoice references.	
Transaction Details	Bank or financial details for processing.	
Approval Process	Authorization from finance & procurement teams.	
Final Settlement Records	Logged in Tally, QuickBooks, SAP for reporting.	

• Preventive Measures

Evaluation Criteria	Details to be Maintained	
Complaint Frequency	Number of complaints per supplier.	
Resolution Time	Average time taken for issue resolution.	
Defect Rate	Percentage of defective items over total orders.	
Compliance Checks	Certifications like OEKO-TEX, GOTS, SEDEX.	

Evaluation Criteria	Details to be Maintained
Supplier Scorecards	ERP dashboards for real-time supplier evaluation.
Corrective Actions	Supplier improvement programs, blacklisting of non-compliant vendors.

• Documentation and Audit Compliance

Documentation Parameter	Details to be Maintained
Record Retention	Archive complaints, resolutions, and financial adjustments for 3–5 years.
Audit Compliance	Ensure records meet industry and legal standards.
Digital Storage	Use automated record management tools.
Accessibility	Ensure retrieval for supplier evaluation and audits.

A well-maintained complaint resolution system enables sourcing managers to successfully address product problems, enforce supplier accountability, and secure financial recoveries. Using ERP solutions, cloud storage, and supplier evaluation tools, garment companies can reduce risks, improve vendor relationships, and maintain high-quality standards in stitched item sourcing. Sourcing managers in stitched apparel procurement track supplier issues effectively, recover losses, improve supplier performance, and maintain compliance with industry regulations.

Summary



- Organizations must follow legal and industry-specific retention periods to ensure compliance and proper data management before disposing of records.
- Records should be categorized into critical, obsolete, and operational types to determine secure archiving or disposal methods.
- Sensitive data should be destroyed using shredding, pulping, data wiping, or cloud storage management to prevent unauthorized access.
- Organizations should integrate vendor records into ERP and supply chain management systems for real-time tracking and risk mitigation.
- Proper documentation of supplier communications (emails, contracts, reports) enhances transparency, compliance, and operational efficiency in apparel sourcing.
- Maintaining structured records of material requirements planning (MRP), procurement approvals, quality checks, and inventory coordination ensures smooth production and prevents delays.
- Systematic logging of product defects, supplier responses, and compensation settlements helps sourcing managers ensure quality and recover financial losses.
- ERP systems (SAP, Oracle NetSuite), cloud storage (Google Drive, SharePoint), and vendor management tools facilitate easy access, data security, and audit compliance.
- Tracking supplier performance, defect rates, and compliance certifications (OEKO-TEX, GOTS) helps in continuous improvement, risk mitigation, and maintaining industry standards.

Exercise

Multiple-choice Question:

- 1. What is the primary purpose of a record retention policy in apparel sourcing organizations?
 - a. To increase paperwork storage capacity
 - b. To ensure compliance with legal and industry regulations
 - c. To allow indefinite storage of all records
 - d. To minimize the need for digital archiving
- 2. Which of the following is a secure disposal method for paper-based records?
 - a. Shredding
 - b. Burning in an open area
 - c. Throwing them in a regular trash bin
 - d. Scanning and discarding the physical copies
- 3. What is the primary purpose of maintaining email records in supplier communication for apparel sourcing managers?
 - a. For personal reference only
 - b. To track negotiations, pricing, and order confirmations
 - c. To delete out-dated contracts automatically
 - d. To avoid storing any communication
- 4. Which storage method is most suitable for tracking material requirement planning (MRP) communication records?
 - a. Paper files in physical cabinets

- b. Standalone spread sheets
- c. ERP systems like SAP, Oracle NetSuite, Tally
- d. Verbal discussions recorded in notebooks
- 5. What key detail should be maintained while logging complaints about purchased items?
 - a. Personal opinion of the sourcing manager
 - b. Supplier's social media details
 - c. Purchase Order (PO) reference, issue description, and supporting documents
 - d. Handwritten notes without any supporting documents

Descriptive Questions:

- 1. Explain the key steps involved in maintaining updated records of approved vendors in apparel sourcing.
- 2. What are the main legal and ethical guidelines organizations must follow when disposing of old records?
- 3. Explain the importance of effective communication record-keeping in supplier interactions for apparel sourcing managers.
- 4. Describe the best practices for maintaining interdepartmental communication records related to material requirements in apparel sourcing.
- 5. Outline the key steps in tracking supplier responses and financial compensation related to complaints about purchased items.

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Scan the QR codes or click on the link to watch the related videos





https://youtu.be/HWWIpyU74HA?si=v0giOdeDOT2bScCU

What is Record Keeping?

https://youtu.be/hXW8Eig6mao?si=rrC39De44yfyiI5U

Vendor Management













Unit 10.1: Hazards Related to Damage to Organization's Assets and Records

Unit 10.2: Personal Protective Equipment (PPE) to be Used during Potential Hazards

Unit 10.3: Health and Safety Signage Put in the Organization



Key Learning Outcomes



By the end of this module, the participants will be able to:

- 1. Describe various personal protective equipment to be used like nose mask, etc.
- 2. Ensure that the workers undertake first-aid, fire fighting and emergency response training.
- 3. Ensure self and workers' participation in mock drills/evacuation procedures organized at the workplace
- 4. Demonstrate basic first aid.
- 5. Demonstrate basic CPR.
- 6. Interpret hazards related to damage to organization's assets and records like fire, short circuit, etc. Interpret the health and safety signage put in the organization.
- 7. Interpret potential risks and threats associated with workplace equipment like cutters, shears, adhesives, etc.
- 8. Monitor the workplace and work processes for potential risks and threats like fire, physical injuries from sharp objects, etc.
- 9. Interpret how to avoid potential hazards at the work area like fire, etc. and handle tools and equipment safely and securely

UNIT 10.1: Hazards Related to Damage to Organization's Assets and Records

Unit Objectives



By the end of this unit, the participants will be able to:

- 1. Discuss the potential hazards and risks that are associated with records and assets during sourcing managers
- 2. Identify the monitoring workplace and work processes during threats and risks

10.1.1 Potential Hazards and Risks in Records and Assets

Sourcing managers in the Indian apparel industry handle a vast amount of records and assets, making them vulnerable to various risks. These risks can impact compliance, operational efficiency, and business continuity. Identifying and mitigating these hazards is crucial for maintaining data security, supplier integrity, and legal compliance.

Risks related to Record Management

In the Indian apparel industry, sourcing managers handle large volumes of records, including contracts, purchase orders, supplier agreements, and compliance documents. Proper record management is essential to prevent financial losses, legal issues, and operational disruptions. Below is an in-depth analysis of key risks and mitigation strategies. Associated risks in record management encountered by the Sourcing managers include:

1. Data Breaches & Cyber-security Threats

Potential impacts of the data breaches and cyber-security risks during sourcing involve the following:

- **Financial Losses:** Unauthorized access to procurement data can lead to financial fraud, with competitors or cybercriminals altering pricing agreements, payment records, or supplier contracts.
- Corporate Espionage: Apparel brands operate in a highly competitive market. A data leak containing supplier pricing structures, material costs, or sourcing strategies can provide competitors with an advantage, causing revenue losses.
- Legal and Compliance Violations: Breaches of supplier or customer data can result in violations of the Indian IT Act (2000), GDPR (for international dealings), or other cyber-security laws, leading to fines or restrictions on business operations.
- **Operational Disruptions:** Cyber-attacks such as ransomware can lock critical procurement data, causing supply chain delays, failed payments, and a breakdown in production schedules.
- **Reputational Damage:** A security breach can erode supplier trust and damage the brand's reputation, leading to lost business opportunities and strained vendor relationships.

2. Loss of Physical Records

Potential impacts of encountering loss in physical records involve the following:

Disruption in Procurement and Production: If paper-based contracts, invoices, or supplier
agreements are lost due to theft, fire, or natural disasters, it may delay procurement activities,
causing production shutdowns.

- **Inability to Resolve Disputes:** Missing purchase order (PO) records or payment receipts can create disputes with suppliers over pricing discrepancies, delayed shipments, or unpaid invoices.
- **Regulatory Non-Compliance:** Failure to present required tax documents, GST filings, and compliance records during an audit can result in legal penalties and fines.
- **Limited Business Continuity:** Businesses without digital backups risk losing years of procurement and financial records, affecting decision-making and future operations.
- **Increased Storage and Retrieval Issues:** Physical records require significant storage space, and misplacing documents can lead to operational inefficiencies.

3. Non-Compliance with Regulatory Requirements

Non-Compliance with the regulatory requirements has potential impacts that are provided in the list below:

- **Heavy Legal Penalties:** Non-compliance with the Indian Companies Act, GST regulations, labour laws, and international compliance standards (OEKO-TEX, SEDEX) can lead to government fines, business restrictions, or litigation.
- Loss of Export and International Contracts: Many global fashion brands require strict adherence to sustainability and ethical sourcing guidelines. Missing compliance records can result in contract cancellations and blacklisting from international buyers.
- **Increased Tax Liabilities:** Improper GST documentation, missing tax invoices, or incorrect filings can lead to unexpected tax burdens, audits, and financial losses.
- **Disruptions in Supplier Relationships:** Failure to maintain updated compliance certificates may result in delayed approvals for new orders, affecting supplier relationships and production timelines.
- **Risk of Government Investigations:** Apparel companies may face unexpected inspections from authorities, leading to operational delays if they fail to provide proper documentation.

4. Unauthorized Alterations of Procurement Data

The potential impacts of the unauthorised alterations of the procurement of data in the records are as follows:

- **Fraudulent Transactions:** Unauthorized changes in purchase orders (POs), invoices, or contract terms may result in overpayments, supplier fraud, or financial manipulation.
- **Supply Chain Disruptions:** If delivery timelines, order quantities, or quality specifications are altered without proper authorization, sourcing managers may face delays, incorrect shipments, or production halts.
- **Legal Consequences:** Fraudulent modifications in financial documents can lead to audit failures, regulatory penalties, and legal proceedings.
- Loss of Supplier Trust: If vendors detect unauthorized changes in agreements, they may hesitate to work with the company in the future, leading to supply shortages and increased costs.
- **Difficulty in Financial Reconciliation:** Discrepancies in procurement records can cause confusion during budget planning, payment settlements, and cost analysis, affecting the company's financial health.

5. Delayed or Missing Records

Missing record assets or delayed registration has the following consequences:

- **Inefficient Supplier Management:** Missing or out-dated supplier records can result in delays in order placements, miscommunication about pricing, or overlooked contract renewal dates.
- **Production Delays:** If sourcing managers cannot quickly retrieve material requirement records, it may delay raw material procurement, affecting production schedules and delivery commitments.

- **Disputes with Vendors:** In case of a disagreement over payment terms, discounts, or defect replacements, lack of proper documentation may weaken the company's position in negotiations.
- Loss of Historical Data for Decision-Making: Sourcing managers rely on past procurement records to assess vendor performance and cost trends. Missing records can lead to uninformed sourcing decisions, higher procurement costs, and poor vendor selection.
- **Compliance Risks:** Inadequate documentation may result in difficulty proving compliance with regulatory requirements, leading to penalties during audits.

Effective record management is essential for maintaining compliance, reducing fraud, and increasing operational efficiency in garment sourcing. By using digital solutions, strong cyber security standards, automated workflows, and audit-ready documentation, sourcing managers can safeguard corporate data, maintain supplier trust, and assure smooth procurement operations. Investing in effective record-keeping infrastructure would not only reduce risks but also improve decision-making and long-term business resilience.

Risks associated with asset management

The sourcing process in India's garment sector entails a number of hazards that can have an impact on product quality, supply chain efficiency, financial stability, and ethical compliance. The table below provides a full overview of potential hazards and mitigation techniques to ensure that sourcing managers address these difficulties proactively.

1. Supplier Fraud & Counterfeit Materials

- **Poor Product Quality & Customer Dissatisfaction:** When counterfeit or low-grade materials are used, the final product fails to meet quality expectations, resulting in high return rates, negative customer feedback, and damage to brand reputation.
- Increased Financial Losses: If materials are misrepresented (e.g., falsely labeled as organic cotton or premium silk), sourcing companies may overpay for substandard materials, impacting overall cost efficiency.
- Regulatory & Legal Consequences: If fraudulently sourced materials fail safety and environmental standards (such as chemical-free certifications), the company may face product recalls, legal penalties, and import/export restrictions.
- **Production Disruptions:** When substandard materials are detected late, they may require last-minute replacements, causing manufacturing delays, urgent reordering costs, and missed deadlines for buyers.

2. Supply Chain Disruptions

- **Production Delays & Missed Deadlines:** If raw materials do not arrive on time due to supply chain disruptions, factories cannot start or complete production, leading to contract breaches and financial penalties.
- Higher Operating Costs: Last-minute sourcing of materials from alternative suppliers often
 results in higher procurement costs, expedited shipping fees, and an increased overall cost per
 unit.
- Lost Market Opportunities: A delayed product launch due to supply chain issues means losing competitive advantage and potential sales loss during peak seasons (e.g., festival sales, export orders).
- **Dependency on a Single Supplier or Region:** Relying on one supplier increases vulnerability to geopolitical events, labour strikes, natural disasters, or trade restrictions that can halt operations.

3. Inventory Mismanagement

- **Overstocking Issues:** Excess inventory leads to higher storage costs, material wastage, and dead-stock accumulation, especially if trends change and certain fabric types become out-dated.
- **Stock-outs & Production Stoppages:** When critical materials (such as trims, buttons, or specific fabric types) are not available at the required time, production lines come to a standstill, causing delivery delays and contract violations.
- Material Theft & Unauthorized Use: Poor inventory tracking allows for pilferage and misuse of materials, leading to financial discrepancies.
- **Inaccurate Demand Forecasting:** Without proper inventory control, sourcing managers may under-order or over-order, leading to either excess holding costs or shortages that disrupt production.

4. Financial Risks from Unreliable Vendors

- **Non-Delivery of Prepaid Orders:** Advance payments to financially unstable or fraudulent suppliers can result in loss of funds with no goods received, leading to budget shortfalls.
- **Hidden Costs & Unfair Pricing:** Vendors may impose additional charges (such as rush order fees or price hikes) without prior notice, disrupting financial planning and profitability.
- Cash Flow Disruptions: Late delivery or non-fulfilment of orders affects revenue cycles, as buyers may delay payments or cancel contracts due to failed deliveries.
- **Difficulty in Legal Recovery:** If an unreliable vendor declares bankruptcy or shuts down, recovering money through legal channels can be time-consuming and costly.

5. Legal & Ethical Risks

- Legal Penalties & Compliance Violations: Sourcing materials from non-compliant factories that violate labour laws can result in heavy fines, factory shutdowns, or blacklisting by international buyers.
- Severe Brand Reputation Damage: If a supplier is found using child labour, forced labour, or unsafe working conditions, it can cause public backlash, loss of corporate partnerships, and lawsuits
- **Restricted Market Access:** Non-compliance with environmental or ethical standards can prevent companies from exporting to key markets (such as the EU and the US) that have strict sustainability and fair-trade requirements.
- Consumer Boycotts & Loss of Trust: Ethical concerns in sourcing can damage consumer trust, leading to lower sales and loss of long-term customers.

Sourcing managers in the Indian apparel business must proactively handle risks such as supplier fraud, supply chain disruptions, inventory mismanagement, financial insecurity, and compliance breaches. A well-structured risk mitigation strategy that includes technology-driven tracking systems, diverse supplier sourcing, financial due diligence, and ethical compliance monitoring can significantly reduce exposure to these challenges while also improving the efficiency, reliability, and reputation of the sourcing process.

10.1.2 Monitoring Workplace and Work Processesd during Threats and Risks

Sourcing managers in the Indian apparel business must regularly monitor their workplace and work processes in order to identify and mitigate hazards that could disrupt supply chains, production timetables, and compliance standards. These threats may include supply chain interruptions, financial fraud, cyber threats, labour unrest, and workplace safety hazards.

Below is an in-depth breakdown of the key areas of monitoring, potential risks, and strategies to safeguard sourcing operations:

1. Supplier Performance Monitoring

Delayed Deliveries Leading to Production Disruptions

- o Missed production deadlines, causing shipment delays and financial losses.
- o Increased lead times, impacting overall supply chain efficiency.
- o Potential contract breaches with clients, resulting in reputational damage.

Quality Issues in Raw Materials Affecting Product Standards

- o Higher rejection rates, leading to wasted resources and increased costs.
- o Poor fabric quality can lead to product returns and customer dissatisfaction.
- o Non-compliance with brand requirements, affecting market competitiveness.

• Non-Compliance with Industry Regulations (OEKO-TEX, GOTS, SEDEX)

- o Risk of regulatory fines and loss of certification, restricting market access.
- o Legal complications and inability to export to regions with strict compliance norms.
- o Damage to brand reputation due to ethical and environmental concerns.
- o Fraudulent Suppliers Providing Counterfeit or Substandard Materials
- o Increased costs due to re-procurement of authentic materials.
- o Supply chain disruptions due to unexpected material quality issues.
- Legal actions from buyers due to failure to meet product quality standards.

2. Workplace Security & Fraud Prevention

Unauthorized Alterations in Procurement Data Leading to Financial Fraud

- o Fake purchase orders and invoices leading to significant financial losses.
- o Manipulated procurement records impacting decision-making and budgeting.
- o Risk of internal corruption within sourcing teams.

• Data Breaches Exposing Sensitive Supplier and Pricing Information

- o Competitors gaining access to confidential pricing and sourcing strategies.
- o Potential legal liabilities for failing to protect supplier data.
- Loss of supplier trust, impacting future collaborations.

Bribery or Unethical Dealings in Vendor Selection

- o Engaging with unverified or low-quality vendors, affecting product standards.
- o Legal consequences due to corruption-related compliance violations.
- Damage to corporate reputation and loss of client confidence.

• Counterfeit Invoicing and Financial Mismanagement

- Over-invoicing causing unexpected financial strain on the company.
- o Difficulties in tracking and auditing financial records.
- o Increased scrutiny from regulatory authorities, leading to possible penalties.
- o Inventory & Material Flow Tracking

3. Compliance & Ethical Sourcing Oversight

• Engagement with Suppliers Violating Labor Laws (Child Labor, Unsafe Work Conditions)

- o Legal penalties and restrictions on selling in compliance-heavy markets.
- o Severe reputational damage for working with unethical vendors.
- o Loss of key buyers who enforce strict sourcing policies.

Failure to Meet Sustainability Requirements Leading to Penalties or Bans

- o Ineligibility for eco-conscious retail programs and global sourcing opportunities.
- o Fines and increased costs due to non-compliant material sourcing.
- o Loss of eco-conscious customers, reducing market share.

• Non-Compliance with Tax Laws and Import/Export Regulations

- Heavy fines and penalties from regulatory authorities.
- o Delayed shipments due to incorrect documentation, impacting deliveries.
- Loss of export licenses, restricting market access.

4. Crisis Management & Business Continuity Planning

• Geopolitical Risks (Trade Restrictions, Political Instability)

- o Increased import/export restrictions impacting sourcing operations.
- o Supply chain disruptions due to political uncertainty in key sourcing regions.
- o Additional costs due to tariffs, trade barriers, and embargoes.

Natural Disasters Affecting Material Supply Chains

- o Factory shutdowns and raw material shortages.
- o Increased insurance and contingency costs.
- o Delayed shipments impacting global retail timelines.

• Pandemic-Related Shutdowns Impacting Production and Transportation

- o Limited workforce availability affecting production capacity.
- o Border closures delaying material shipments.
- Health & safety concerns leading to reduced factory efficiency.

Cyber-security Threats Leading to Data Loss or Operational Disruptions

- o Risk of ransomware attacks, causing financial and operational losses.
- o Loss of critical sourcing data, affecting decision-making.
- Unauthorized access to confidential business information

UNIT 10.2: Personal Protective Equipment (PPE) to be Used during Potential Hazards

Unit Objectives



By the end of this unit, the participants will be able to:

- 1. List of the health factors during potential hazards in apparel sourcing
- 2. List of workers that undertake first aid, fire fighting and emergency response training
- 3. Discuss the importance of protective equipment

10.2.1 Health factors like First Aid and CPR during Potential Hazards during Sourcing

In an apparel sourcing organization in India, workplace safety is crucial due to potential hazards. These hazards include fire accidents due to flammable materials, machinery-related injuries from sewing machines and cutting tools, exposure to harmful chemicals used in fabric treatment, and ergonomic issues resulting from repetitive movements and poor workstation design. Ensuring a safe working environment requires a proactive approach to hazard identification, risk mitigation, and emergency response preparedness. First Aid and CPR (Cardiopulmonary Resuscitation) play a vital role in managing emergencies and ensuring worker safety. Organizations that prioritize health and safety not only protect their workforce but also contribute to higher productivity, employee satisfaction, and a positive reputation in the industry.

Importance of First Aid Training

Managers of apparel sourcing are essential to guaranteeing the security and welfare of industrial workers. They must be in charge of putting workplace health and safety procedures, such as First Aid Training, into practice because they supervise production, quality assurance, and supply chain operations. Reducing workplace injuries, preventing fatalities, and fostering a safer working environment can be achieved by making sure that employees have the necessary first aid training and that there are enough medical supplies on hand.



Fig. 10.2.1: First Aid Kit

Examples of Minor Injuries That Can Worsen Without First Aid

Cuts and Lacerations from Fabric Cutting Machines



Fig. 10.2.2: Fabric Cutting Machines

Burns from Ironing and Fabric Pressing Machine



Fig. 10.2.3: Pressing equipment

• Muscle Strains and Sprains from Lifting Heavy Fabric Rolls



Fig. 10.2.4: Heavy Fabric rolls

Immediate Response to Common Factory Accidents

Workplace accidents can happen unexpectedly in apparel factories, and the response time is critical in minimizing harm. Sourcing managers must ensure their teams are trained to handle emergencies efficiently and provide immediate first aid care.

Burn Injuries from Steam Press and Boilers:

- Immediate cooling of the affected area under running water for at least 10 minutes.
- Application of sterile non-adhesive bandages and burn creams to prevent infection.
- Referral to medical professionals if the burn is severe.

Chemical Exposure from Fabric Dyes and Adhesives:

- Workers exposed to toxic chemicals must be moved to fresh air immediately.
- Affected skin areas should be washed with clean water, and eye wash stations must be available for chemical splashes.
- Immediate medical evaluation is necessary for severe exposure.

Severe Cuts from Cutting Machines or Fabric Shears:

- Applying direct pressure with a sterile cloth to control bleeding.
- Keeping the injured part elevated to reduce blood loss.
- Immediate transfer to medical assistance if the wound is deep.

Falls and Fractures from Unstable Work Surfaces:

- Stabilizing the injured worker and avoiding unnecessary movement.
- Applying splints for fractures to prevent further damage.
- Transporting the worker carefully for professional medical care.

Availability of First Aid Kits and Medical Supplies

A fully stocked first aid kit is an essential component of workplace safety. Apparel sourcing managers must ensure that all factories have easy access to first aid supplies and that kits are checked and replenished regularly.

Key Responsibilities of Apparel Sourcing Managers:

The key role of sourcing managers is to ensure that all factory units have well-stocked first aid kits placed at strategic locations such as workstations, break rooms, and near high-risk areas (e.g., boiler rooms, cutting sections). They conduct regular audits to check the availability and expiration dates of medical supplies. They also assign trained personnel to oversee first aid kit maintenance and usage. Sourcing managers have the role to implement digital tracking systems to monitor first aid supply consumption and ensure timely restocking.

Essential Medical Supplies in Factory First Aid Kits:

Basic Wound Care: Bandages, gauze pads, adhesive tapes, antiseptic wipes, and disinfectants.



Burn Treatment: Burn creams, cooling gel, and sterile dressings.



Pain Relief: Painkillers such as paracetamol and anti-inflammatory creams.



Emergency Equipment: Scissors, tweezers, gloves, and face shields for CPR.



Fracture Care: Splints, elastic bandages, and cold packs.



Chemical Exposure Treatment: Eye wash solutions and neutralizing agents.



Training Workers on Proper First Aid Usage:

Providing the workers with hands-on demonstrations for using first aid supplies are effective strategy during potential hazards. Organizing workshop sessions for factory workers helps in understanding proper wound dressing, burn treatment, and emergency response techniques. Creating first aid awareness posters in local languages for ensuring workers can follow safety instructions easily.

Role of CPR in Emergency Situations

Cardiopulmonary Resuscitation (CPR) is a crucial life-saving technique used in cases of cardiac arrest, suffocation, or respiratory failure. Apparel sourcing managers must ensure that all factories in their supply chain train workers and supervisors in CPR techniques to handle medical emergencies efficiently. The apparel industry often involves long working hours, excessive heat exposure, and high-stress environments, which can lead to sudden cardiac emergencies among workers. In such situations, CPR can mean the difference between life and death.

Apparel sourcing managers must ensure that CPR training and mock drills are conducted at least twice a year to maintain high preparedness levels.

Implementation Strategies include the following:

- Organizing hands-on CPR training sessions for factory supervisors and safety officers.
- Conducting mock emergency drills for cardiac arrest scenarios, ensuring quick response times.
- Partnering with healthcare professionals for on-site CPR training programs and certifications.
- Assessing and updating emergency protocols based on feedback from drills and real-life incidents.

A well-structured emergency response plan is essential for handling workplace accidents, fires, medical emergencies, and chemical hazards efficiently. Apparel sourcing managers must take proactive measures to ensure that factories follow best practices in emergency preparedness. Every factory should have a designated safety team responsible for handling emergencies, providing first aid, and managing evacuations. Apparel sourcing managers must ensure that each facility has a trained safety team in place. They must procure mandatory safety training to educate workers about potential hazards and emergency protocols.

Case Study: Effective Implementation of First Aid and CPR in an Apparel Sourcing Factory

Effective Implementation of First Aid and CPR in an Apparel Sourcing Factory

Background: ABC Apparel, a large garment sourcing and manufacturing company in India, employs over 2,000 workers in its factories. To ensure worker well-being, the management implemented a comprehensive First Aid and CPR training program across its production units.

Incident Overview: In June 2023, a factory worker, Ramesh Kumar, aged 42, suffered a sudden cardiac arrest while working on the production floor. He collapsed without warning, becoming unresponsive and struggling to breathe. The nearest medical facility was 20 minutes away, and waiting for professional help could have resulted in a fatal outcome.

Emergency Response: Thanks to the factory's First Aid and CPR training program, the following lifesaving actions were immediately taken:

- Immediate Recognition and Response: A trained worker, Priya Sharma, quickly assessed the situation, checked for a pulse, and found Ramesh unresponsive. nShe called for help and alerted the on-site emergency response team.
- Cardiopulmonary Resuscitation (CPR) Administered: A CPR-certified safety officer immediately began chest compressions while another worker assisted with mouth-to-mouth resuscitation. An Automated External Defibrillator (AED), installed in the factory under company policy, was retrieved. The AED was applied, and a shock was administered, helping restore Ramesh's heartbeat.
- Emergency Medical Assistance: While CPR was being performed, another team member called emergency medical services (EMS) and provided key details. Within 15 minutes, the ambulance arrived, and medical professionals took over.

Outcome: Due to the quick intervention by trained workers, Ramesh regained consciousness before the ambulance arrived. He was transported to the hospital, where he received further treatment. Doctors credited the timely CPR and AED use with saving his life. After a week of recovery, he returned to work, and the factory's commitment to workplace safety was recognized in an industry safety audit.

Key Learning from the Incident

- **Training Saves Lives:** The factory's investment in CPR and First Aid training directly contributed to a successful emergency response.
- AEDs Are Critical: The presence of an AED on-site significantly improved survival chances.
- **Preparedness Enhances Safety:** A trained emergency response team and clear action plan ensured that help was immediate.
- Health and Safety Programs Must Be On-going: Following the incident, ABC Apparel expanded CPR and First Aid training to all factory supervisors and reinforced regular emergency drills.

Conclusion: This case study highlights the importance of First Aid and CPR training in apparel factories. By proactively implementing workplace safety measures, ABC Apparel protected its workforce, complied with legal safety standards, and strengthened its reputation as a responsible employer. The incident served as a wake-up call for other factories to invest in life-saving training programs, ensuring that every second counts in emergencies.

10.2.2 Workers undertake First-Aid, Fire Fighting and Emergency Response Training

In apparel sourcing and manufacturing units, workplace safety is a top priority due to the presence of various hazards, including fire risks, machinery-related injuries, and health emergencies. Training workers in First Aid, Fire Fighting, and Emergency Response ensures quick and effective action during critical incidents, reducing casualties and property damage. Sourcing managers play a key role in implementing and overseeing these safety programs to ensure compliance with industry standards and labour laws.

• First Aid Training for Workers

First Aid training helps workers respond effectively to injuries and medical emergencies in apparel factories, reducing the risk of long-term health complications.

- o Sewing needles, cutting tools, and fabric shears pose risks of deep cuts and puncture wounds.
- o Workers are trained to clean wounds, apply bandages, and control bleeding using factory first aid kits
- Heat-sealing machines, irons, and chemical treatments for fabrics can cause burns or skin irritation.
- o Training includes cooling burns, applying antiseptic creams, and handling chemical spills safely.
- o Cases of cardiac arrest due to stress, heat exhaustion, or workplace incidents require immediate action.
- Workers learn chest compressions, mouth-to-mouth resuscitation, and proper CPR techniques to save lives.

• Fire Fighting Training for Workers

- Fire outbreaks in apparel factories can occur due to overheated machinery, electrical faults, or flammable fabrics. Fire safety training prepares workers to detect, prevent, and control fires efficiently.
- o Recognizing potential fire risks such as faulty wiring, flammable chemicals, and obstructed escape routes.
- Training workers to use fire extinguishers based on fire types (electrical, fabric, chemical fires).
- o Implementing the PASS technique (Pull, Aim, Squeeze, Sweep) for effective fire fighting.
- o Reporting hazards to supervisors before they escalate.

• Emergency Response Training for Workers

Emergency situations in apparel sourcing factories include fires, industrial accidents, health crises, and natural disasters. Proper emergency response training minimizes injuries, casualties, and financial losses.

- o Workers must be aware of emergency alarms, evacuation signals, and designated safety officers in the factory.
- o Regular mock drills ensure a well-coordinated response.
- o Emergency Response Teams (ERTs) are formed with trained workers assigned roles such as first responders, evacuation coordinators, and communication officers.
- o Clear chain-of-command ensures quick decision-making and controlled evacuation.
- o Workers are trained to turn off power sources, use safety shut-off mechanisms, and assist injured colleagues without worsening the situation.

Role of Sourcing Managers in Implementing Safety Training

Apparel sourcing managers play a vital role in ensuring factory workers receive proper safety training and comply with industry standards.

- o Collaborate with certified trainers and safety professionals to conduct training sessions.
- o Ensure all workers, including sewing operators, machine handlers, and fabric processors, are trained.
- o Install fire extinguishers, first aid kits, and emergency alarms in multiple factory locations.
- o Regular inspection and maintenance of safety equipment to prevent failures during crises.
- o Organize fire drills, first aid simulations, and evacuation exercises every 3-6 months.
- o Ensure all workers actively participate and improve response times.

In order to guarantee worker safety, lower risks, and boost overall productivity in clothing sourcing companies, first aid, fire fighting, and emergency response training are crucial. Sourcing managers can prevent injuries, safeguard assets, and adhere to regulatory safety standards by providing workers with life-saving skills. Investing in a robust safety culture boosts employee morale and increases company reputation in the international clothing industry.

10.2.3 Self and Workers Participation in Mock Drills/ Evacuation Procedures

Workplace safety is a critical priority due to potential hazards such as fire accidents, machinery malfunctions, chemical spills, and structural emergencies. Mock drills and evacuation procedures play a vital role in ensuring that both sourcing managers and workers are well-prepared to respond effectively to emergencies, minimizing casualties, financial losses, and reputational risks.

Importance of Mock Drills & Evacuation Procedures in the Apparel sourcing organisations includes the following list:

- Enhancing Emergency Preparedness: Ensures sourcing managers and workers know their roles and responsibilities during an emergency. Provides hands-on training in fire safety, first aid, and emergency response techniques.
- **Reducing Panic and Confusion:** Simulated evacuation procedures help employees stay calm and act efficiently under pressure. Helps in identifying bottlenecks and delays in existing evacuation plans.
- Compliance with Safety Regulations: Meets the legal requirements outlined in The Factories Act, 1948, and Occupational Safety, Health & Working Conditions Code, 2020. Prevents penalties, factory shutdowns, and legal consequences due to non-compliance.
- **Protecting Lives and Assets:** Prevents injuries and fatalities by ensuring a quick and orderly evacuation. Reduces the impact of fire, gas leaks, electrical hazards, and other disasters.
- **Building a Safety-Oriented Culture:** Encourages sourcing managers and employees to prioritize safety in everyday operations. Increases awareness about emergency exits, assembly points, and safety gear.

Role and responsibilities of sourcing managers in mock drills or evacuation procedures include the following:

Sourcing managers play a key leadership role in designing, implementing, and overseeing emergency
response drills. Their active participation ensures that the organization follows best practices and
prepares workers effectively.

- **Developing an Emergency Response Plan (ERP):** Establish clear evacuation routes and safety zones inside the factory or sourcing office. Ensure fire extinguishers, emergency exits, and medical supplies are accessible.
- Conducting Regular Mock Drills: Schedule quarterly or bi-annual fire drills to test evacuation
 efficiency. Simulate different emergency situations like fires, chemical spills, gas leaks, or
 earthquakes.
- Training Workers & Supervisors: Educate workers on fire safety measures, first aid techniques, and CPR procedures. Assign emergency response teams responsible for leading evacuations, assisting injured employees, and coordinating with emergency services.
- **Evaluating and Improving Procedures:** Conduct post-drill assessments to identify gaps in response time, coordination, and communication. Implement improvements based on feedback from participants and safety officers.
- **Ensuring Legal Compliance:** Maintain records of evacuation drills, employee participation, and safety training. Collaborate with local fire departments and safety authorities for compliance audits.

Steps for conducting a successful mock drill procedure in the apparel industry based on the stitched items is provided below:



Fig. 10.2.5: Procedures for conducting a mock drill

Case Study: Fire Emergency Drill at XYZ Apparel Sourcing Pvt. Ltd.

Background: XYZ Apparel Sourcing Pvt. Ltd. is a leading sourcing company in India that collaborates with multiple garment factories. Due to recent incidents of fire hazards in the textile industry, the company decided to enhance emergency preparedness by organizing a fire evacuation drill at its main factory unit.

Implementation:

- **Step 1:** Risk Assessment & Planning: The safety team identified potential hazards such as flammable fabrics, electrical overloads, and improper fire exit markings. The management established a detailed evacuation plan with clearly marked exit routes and assembly points.
- **Step 2:** Fire Drill Execution The fire alarm was activated at 11:00 AM, signalling employees to evacuate immediately. Sourcing managers led the evacuation, ensuring all workers moved in an orderly manner to designated assembly areas. Fire response teams used fire extinguishers to simulate fire suppression efforts.
- **Step 3:** Performance Evaluation & Feedback:

Time taken for full evacuation: 3 minutes 45 seconds (acceptable but needed improvement).

Challenges Identified:

- Some employees ignored alarms, assuming it was a test.
- o A few exits were cluttered with storage materials, causing delays.
- Workers lacked clarity on assembly points, leading to confusion.
- **Step 4:** Corrective Measures
 - o Conducted awareness sessions to emphasize the seriousness of emergency drills.
 - o Implemented weekly inspections to keep exits free from obstructions.
 - o Installed better signage and bilingual emergency instructions for workers.
 - Planned quarterly fire drills to reinforce safety habits.

Outcome: After implementing the improvements, the next fire drill was conducted 3 months later. The evacuation time reduced to 2 minutes 30 seconds. Worker participation increased, and safety awareness improved. XYZ Apparel Sourcing Pvt. Ltd. received recognition from local safety authorities for implementing effective fire safety measures.

Conclusion: The active participation of sourcing managers and workers in mock drills and evacuation procedures is essential for ensuring a safe and prepared work environment in apparel organizations. These drills help in minimizing injuries, ensuring compliance, and building a culture of safety awareness.

By developing clear emergency response plans, conducting regular training, and improving evacuation protocols, sourcing managers can protect lives, reduce operational disruptions, and enhance the company's reputation as a responsible employer.

Unit 10.3: Health and Safety Signage Put in the Organization

- Unit Objectives



By the end of this unit, the participants will be able to:

- 1. Discuss the importance of protective equipment.
- 2. Describe ways to handle tools and equipment safely and securely

10.3.1 Importance of Protective Equipment

Apparel sourcing managers in India oversee the production and supply chain processes in garment factories, warehouses, and supplier locations. Given the industrial work environment, they are exposed to potential hazards such as chemical exposure, fire risks, airborne contaminants, and ergonomic injuries. The use of Personal Protective Equipment (PPE) is essential to safeguard their health and ensure compliance with Indian labour laws and international safety standards.

Types of Protective Equipment for Apparel Sourcing Managers are as follows:

Protection	Purpose	Types
Respiratory Protection	Protects against dust, textile fibres, and chemical fumes from dyes and adhesives	Face masks like N95, FFP2, and reusable respirators
Eye & Face Protection	Shields the eyes from dust, flying fabric particles, and chemical splashes	Safety glasses, chemical splash goggles, face shields

Protection	Purpose	Types
		Fire-resistant clothing, chemical-resistant aprons, high-visibility vests
Head Protection	Shields the head from falling objects, accidental impact, and dust	Hard hats, bump caps
Foot Protection	Provides protection from sharp objects, chemicals, and high-temperature machinery	Cut-resistant gloves, chemical-resistant gloves, heat-resistant gloves

Table 10.3.1: Types of Protective Equipment

Apparel sourcing managers in India play a crucial role in overseeing production, ensuring quality control, and maintaining smooth supply chain operations. Their work often requires visiting factories, warehouses, and supplier sites, where they are exposed to various occupational hazards, including chemical exposure, machinery risks, and airborne contaminants. The use of Protective Equipment (PPE) is essential in safeguarding their health, maintaining workplace safety, and ensuring compliance with national and international regulations.

Importance of Protective Equipment

1. It complies with health & safety regulations

- Stitched item production involves various fabric treatments, sewing processes, and quality checks that require strict adherence to workplace safety laws.
- Example: Example: If a sourcing manager inspects a stitching unit where workers handle chemically treated fabrics, they must wear respiratory masks and gloves to avoid inhaling toxic particles or skin irritation.

2. It provides protection from occupational hazards

- Sourcing managers frequently visit factories, warehouses, and supplier units, exposing them to several risks such as chemical exposure from treated fabrics.
- Example: While inspecting a stitching unit, a sourcing manager may come into contact with loose threads or sharp sewing tools, increasing the risk of cuts or fabric dust inhalation. Proper PPE prevents such injuries.

3. It improves reputation and worker morale

- Using PPE in stitched item production helps apparel sourcing managers ensure ethical and safe work environments.
- Example: Global brands prefer working with factories that follow PPE protocols in their stitching lines. A sourcing manager ensuring compliance can build stronger partnerships with buyers.

4. It enhances productivity and efficiency

- Providing and using the right PPE ensures a safer working environment, leading to higher efficiency in sourcing and production processes.
- Example: A manager inspecting a high-volume stitching line for bulk production must ensure dust masks and safety footwear are worn to prevent fabric dust allergies and foot injuries from moving equipment.

5. It reduces long-term health risks

- Constant exposure to fabric dust, chemical treatments, and sewing machine vibrations can lead to chronic health issues.
- Example: A sourcing manager inspecting stitching operations for long hours may develop chronic back pain if not using proper ergonomic footwear. Investing in PPE reduces such risks.

Protective equipment is essential for apparel sourcing managers involved in stitched item production. It ensures legal compliance, protects against occupational hazards, enhances productivity, builds reputation, and reduces long-term health risks. By prioritizing PPE use and safety training, sourcing managers can create a safer and more efficient work environment while ensuring high-quality apparel manufacturing.

- 10.3.2 Handling Tools and Equipment Safely and Securely

In factories, warehouses, and production facilities, sourcing managers are in charge of making sure that tools, machinery, and equipment are handled securely and safely. When handled properly, workplace accidents, equipment damage, and productivity losses are reduced, and safety laws such as the Occupational Safety, Health & Working Conditions Code of 2020 and the Factories Act of 1948 are followed. To establish a safe workplace, sourcing managers can use a well-organized safety management plan to assist them train employees, enforce safety regulations, and put risk prevention techniques into practice.

Importance of handling tools and equipment

It is imperative that tools and equipment be handled safely and securely in clothing sourcing businesses because sourcing managers and factory workers frequently work with cutting tools, sewing machines, pressing equipment, material handling devices, and chemical treatments,. In addition to reducing the risk of accidents, appropriate use and upkeep of these products increases productivity, adherence, and equipment longevity.

1. It helps in preventing workplace injuries

In the fast-paced environment of apparel production and sourcing, improper use of tools and equipment can result in severe workplace injuries such as cuts, fractures, burns, electrical shocks, and repetitive strain injuries (RSIs).

Safety measures taken up for the prevention of injuries with tools and equipment includes the following:

- Train workers and managers on proper tool usage and safety protocols.
- Provide Personal Protective Equipment (PPE) such as gloves, safety goggles, anti-cut sleeves, heat-resistant gloves, and ergonomic support gear.
- Implement Standard Operating Procedures (SOPs) for handling different machines and tools.
- Conduct regular safety drills and first-aid training for immediate response to accidents.

By ensuring that all employees follow safe handling procedures, organizations significantly reduce workplace injuries, absenteeism, and compensation claims.

2. Tools and equipment help in maintaining operational efficiency

Efficient tool and equipment handling directly impacts production speed, quality, and overall workflow efficiency. When tools are misused or poorly maintained, the entire supply chain faces delays, increased costs, and quality control issues.

Best practices that are relevant for maintaining the operational efficiency among the sourcing managers includes the following list:

- Routine equipment inspections should be conducted to detect wear and tear before serious malfunctions occur.
- Lubrication and servicing of machinery must be done as per manufacturer guidelines to extend tool lifespan.
- Implement an inventory management system to track tool conditions and replacement schedules.
- Train employees in time-efficient and safe handling techniques to maximize productivity.

By emphasizing safety and efficiency, apparel sourcing managers achieve smooth operations and timely delivery of high-quality garments.

3. It helps in complying with the safety regulations

Sourcing managers must ensure that all tools, equipment, and machinery comply with Indian labour laws and international safety standards to protect workers and prevent legal violations.

Ensuring the compliance by the sourcing managers includes the following:

- Conduct regular workplace audits to verify safety standards and equipment maintenance.
- Maintain updated safety records and accident reports as required by labour laws.

- Train workers on compliance best practices and ensure proper use of PPE.
- Collaborate with health & safety officers to implement emergency response plans and risk mitigation strategies.

By adhering to these legal and safety requirements, apparel sourcing organizations can prevent legal issues, ensure worker safety, and maintain their reputation in the global market.

4. It enhances equipment longevity

Tools and machinery represent a significant investment in apparel sourcing operations. Proper handling and regular maintenance ensure prolonged equipment life, reducing costs associated with frequent repairs, replacements, and production losses.

Preventive maintenance strategies those are essential for the equipment longevity includes:

- Establishment of a scheduled maintenance program for all critical tools and machinery.
- Training workers on basic troubleshooting and proper cleaning techniques.
- Backup tools and spare parts kept available to minimize downtime during repairs.
- Storage of tools properly in dry, organized, and temperature-controlled environments to prevent rust, corrosion, or mechanical damage.

By following safe handling and maintenance procedures, apparel sourcing managers can increase equipment lifespan, lower operational costs, and maintain uninterrupted production workflows.

Safe tool and equipment handling is crucial for avoiding accidents, preserving productivity, guaranteeing legal compliance, and prolonging equipment life. To establish a safe and effective workplace, sourcing managers must implement appropriate safety procedures, offer training, and carry out routine maintenance. Businesses may improve worker well-being; lower operating costs, and boost their reputation as ethical apparel sourcing partners globally by putting safety and efficiency first.

Summary



- Sourcing managers face risks such as data breaches, physical record loss, regulatory non-compliance, unauthorized alterations, and missing records, impacting compliance, finances, and operational efficiency.
- Effective monitoring of supplier performance, workplace security, compliance adherence, and financial transactions is essential to prevent fraud, cyber threats, unethical practices, and operational disruptions.
- Apparel sourcing organizations face hazards such as fire risks, machinery injuries, and chemical exposure, requiring a proactive approach to hazard identification and emergency preparedness.
- Regular fire drills, emergency response training, and evacuation procedures help minimize casualties and ensure compliance with safety regulations.
- Apparel sourcing managers play a key role in implementing safety measures, maintaining first aid supplies, training workers, and ensuring adherence to safety protocols.
- Ensuring workers are trained in First Aid and CPR helps prevent fatalities, manage emergencies effectively, and improve overall workplace safety.
- Personal Protective Equipment (PPE) is crucial for apparel sourcing managers to protect against occupational hazards like chemical exposure, machinery risks, and airborne contaminants, ensuring compliance with Indian and international safety standards.
- Sourcing managers must ensure adherence to Indian labour laws, such as the Occupational Safety,
 Health & Working Conditions Code of 2020 and the Factories Act of 1948, through regular safety
 audits, training, and risk mitigation strategies.



Multiple-choice Question:

- 1. What is one of the key risks of supplier fraud in the Indian apparel industry?
 - a. Improved compliance standards
 - b. Increased financial losses due to counterfeit materials
 - c. Reduced product demand
 - d. Enhanced supplier relationships
- 2. What is the primary role of apparel sourcing managers in ensuring workplace safety?
 - a. Increasing production speed
 - b. Implementing and overseeing health and safety procedures
 - c. Reducing the cost of fabric sourcing
 - d. Training workers in garment design
- 3. In case of a severe burn injury from a steam press, what should be the immediate first aid response?
 - a. Apply ice directly to the burn
 - b. Cover the burn with a dry cloth and wait for medical assistance
 - c. Cool the affected area under running water for at least 10 minutes
 - d. Rub the burn with oil or butter
- 4. What is the primary reason for using Personal Protective Equipment (PPE) in apparel sourcing operations?
 - a. To reduce fabric costs
 - b. To ensure compliance with safety regulations and protect against workplace hazards
 - c. To improve garment design efficiency
 - d. To increase production speed
- 5. Which of the following is NOT a potential impact of unauthorized alterations in procurement data?
 - a. Fraudulent transactions

b. Enhanced supplier trust

c. Supply chain disruptions

d. Legal consequences

Descriptive Questions:

- 1. Explain the impact of data breaches and cyber-security threats on record management in the Indian apparel industry. Provide examples of potential consequences.
- 2. Explain the importance of First Aid and CPR training in apparel sourcing organizations.
- 3. Describe the steps taken in a fire emergency drill in an apparel factory and the role of sourcing managers in ensuring effective evacuation procedures.
- 4. Explain the importance of handling tools and equipment safely in apparel sourcing operations. How does it contribute to workplace safety, efficiency, and legal compliance?
- 5. Describe the risks associated with non-compliance with regulatory requirements in apparel sourcing.

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Scan the QR codes or click on the link to watch the related videos





https://youtu.be/DUaxt8OIT3o?si=v65TnwBA6oWxRNht

CPR in Action

https://youtu.be/28tV8zg8CKE?si=iO1_jJ6J_oCjapTe

"Personal Protective Equipment (PPE)







11. Ensure Adherence to Industry, Regulatory, and Organisational Standards, While Incorporating the Principles of Environmental Sustainability



Unit 11.1: Workplace Safety, Maintenance, and Procedures

Unit 11.2: Tools, Machinery, and Processes

Unit 11.3: Quality Control and Record-Keeping

Unit 11.4: Sustainability, Communication, and Problem-Solving



-Key Learning Outcomes 🕎

By the end of this module, the participants will be able to:

- 1. Describe the effects of contamination on products and methods to minimize wastage.
- 2. Explain safe working practices for cleaning and maintaining equipment.
- 3. Identify the tools and equipment required for marking and their uses.
- 4. Maintain proper posture and demonstrate safe lifting and handling procedures.
- 5. Discuss the importance of effective communication with colleagues and supervisors.
- 6. Explain the significance of greening solutions, policies, and regulatory compliance in operations.
- 7. Identify common faults with equipment and describe methods for rectification.
- 8. List procedures for maintaining tools and equipment, ensuring safety and efficiency.
- 9. Evaluate ways to conserve energy and manage waste in the apparel sector.

UNIT 11.1: Workplace Safety, Maintenance, and Procedures

- Unit Objectives



By the end of this unit, the participants will be able to:

- 1. Explain the effects of contamination on products and methods to prevent it.
- 2. Describe safe working practices for cleaning and maintaining equipment.
- 3. Discuss the use of appropriate cleaning equipment, substances, and methods.
- 4. Illustrate the process for regular running maintenance of tools and machines.
- 5. Assess correct lifting and handling techniques.
- 6. Describe the safe storage of cleaning equipment after use.
- 7. Explain the procedures for the disposal of waste safely in designated locations.
- 8. Discuss the importance of switching off machines when not in use.
- 9. Outline the procedures for conducting maintenance of tools and equipment.
- 10. Analyse how to identify and rectify common faults with equipment.

11.1.1 Contamination Prevention and Safe Working Practices

Contamination in a boutique can affect the quality of fabrics, accessories, and final products. Proper hygiene and cleanliness standards help maintain product integrity and customer satisfaction.

Contamination Prevention Methods

Source of Contamination	Prevention Methods	Impact on Product Quality
Dust & Dirt	Regular cleaning, air filters	Prevents fabric damage
Chemical Residues	Use appropriate cleaning agents	Avoids discoloration, stains

Source of Contamination	Prevention Methods	Impact on Product Quality
Pest Infestation	Pest control measures	Prevents fabric deterioration
Human Contact	Gloves, sanitization practices	Reduces stains, bacteria transfer

Table 11.1.1: Contamination prevention methods

11.1.2 Equipment Maintenance and Safe Handling Techniques

Proper cleaning, maintenance, and storage of tools and machines ensure efficiency and longevity. Employees must be trained in safe lifting and handling techniques to prevent injuries. Proper care not only reduces costs associated with repairs and replacements but also creates a safer work environment for employees.

Importance of Equipment Maintenance in a Boutique

Boutiques rely on various tools and equipment, such as sewing machines, steamers, mannequins, display racks, and cash registers. Regular maintenance ensures:

- **Efficiency:** Well-maintained tools operate smoothly and reduce downtime.
- Safety: Prevents workplace injuries caused by faulty equipment.
- Cost Savings: Reduces unnecessary repairs and prolongs equipment lifespan.

Types of Equipment and Maintenance Practices

Boutique equipment can be classified into different categories based on their function:

Category	Examples	Maintenance Tips
Sewing & Stitching Tools	Sewing machines, embroidery tools, fabric cutters	Regular oiling, dust removal, and proper needle replacements

Category	Examples	Maintenance Tips
Pressing & Steaming	Steam irons, garment steamers, ironing boards	Empty water tanks after use, descale periodically, clean surfaces
Display & Storage	Mannequins, shelves, racks, mirrors	Dusting, checking for loose parts, avoiding excessive weight
Point of Sale (POS) & Technology	Cash registers, card machines, barcode scanners	Software updates, cable management, cleaning screens and keys
Cleaning & Maintenance Tools	Vacuum cleaners, cleaning cloths, mops	Cleaning after use, replacing filters, checking power cords

Table 11.1.2: Types of Equipment and Their Maintenance Tips

Safe Operation of Equipment

Equipment	Common Hazards	Safety Measures
Sewing Machine	Needle injuries, entanglement	Keep hands away from the needle area, and unplug when not in use
Garment Steamer	Burns, electrical hazards	Use with caution; keep away from water sources
Ironing Station	Burns, fire hazards	Turn off when not in use, store properly
Ladders (for display adjustments)	Falls, improper usage	Use stable ladders, avoid overreaching

Table 11.1.3: Safety Measures to be taken with various equipment

11.1.3 Use of Appropriate Cleaning Equipment, Substances, and Methods

Maintaining a clean and hygienic boutique environment is essential not only for aesthetics and customer satisfaction but also for the preservation of garments, equipment, and display materials. Using the correct cleaning equipment, substances, and methods ensures thorough cleanliness without causing damage to delicate fabrics, electronics, or boutique interiors.

Importance of Appropriate Cleaning

Prevents cross-contamination between garments, surfaces, and changing rooms

Extends the life of furnishings and equipment by avoiding abrasive or corrosive cleaners

Enhances customer experience through a pleasant and professional ambiance

Supports health and safety standards by minimizing allergens, dust, and pathogens

Fig. 11.1.1: Importance of appropriate cleaning of equipment

Cleaning Equipment and Their Uses

Cleaning Equipment	Purpose	Best Use Area
Microfiber Cloths	Traps dust and particles without scratching surfaces	Display shelves, mirrors, POS systems
Handheld Vacuum	Cleans corners, floors, and upholstery	Fitting rooms, under racks
Garment Brush/Roller	Removes lint, threads, and dust from clothing	Sample/display garments

Cleaning Equipment	Purpose	Best Use Area
Steam Cleaner	Sanitizes fabrics without harsh chemicals	Curtains, delicate upholstery
Mop and Bucket	Wet cleaning of floors	Entrance area, storage room floors
Dustpan and Brush	Sweeps up debris from floors and shelves	Throughout the boutique

Table 11.1.4: Cleaning Equipment and their uses

Appropriate Cleaning Substances

Cleaning Substance	Туре	Suitable For	Caution
Mild Detergent Solution	Liquid Soap	Floors, non-fabric surfaces	Avoid excess on electronics
Fabric-safe Disinfectant Spray	Spray	Upholstery, changing rooms, couches	Check garment compatibility
Glass Cleaner	Spray	Mirrors, glass displays	Use a soft cloth to prevent streaks
Wood Polish	Oil-based	Wooden counters, display shelves	Test on a small area first

Cleaning Substance	Туре	Suitable For	Caution
Alcohol Wipes	Disposable Wipes	POS devices, doorknobs, phones	Ensure devices are powered off

Table 11.1.5: Types of cleaning substances and their characteristics

Cleaning Methods by Boutique Zone

Area	Recommended Method	
Display Areas	Daily dusting with microfiber cloth, weekly deep cleaning	
Changing Rooms	Disinfect handles, benches, and mirrors after each use	
Storage Areas	Weekly vacuuming, monthly reorganization and dusting	
Cash Counter/POS	Clean screens and card machines with alcohol wipes daily	
Fitting Room Curtains	Steam clean weekly or as needed	

Table 11.1.6: Cleaning methods

11.1.4 Process for Regular Running Maintenance of Tools and Machines

In the daily operation of a boutique, tools and machines such as sewing equipment, garment steamers, label printers, and display systems are used frequently. To ensure optimal performance, safety, and durability, it is essential to carry out regular running maintenance- a series of routine checks and minor servicing activities that prevent breakdowns and extend the life of equipment.

Objectives of Running Maintenance

- Prevent unexpected downtime
- Ensure consistent performance
- Avoid costly repairs and replacements
- Maintain a safe working environment
- Support efficiency in daily boutique operations

Step-by-Step Maintenance Process

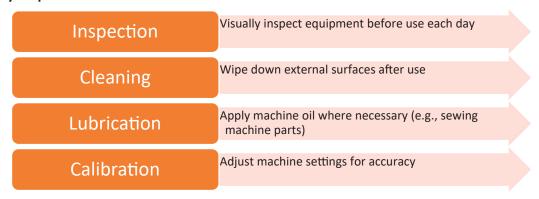




Fig. 11.1.2: Maintenance Process

11.1.5 Correct Lifting and Handling Techniques

Proper lifting and handling techniques prevent injuries and damage to tools. Employees should be trained in:

1. Lifting Techniques for Heavy Items

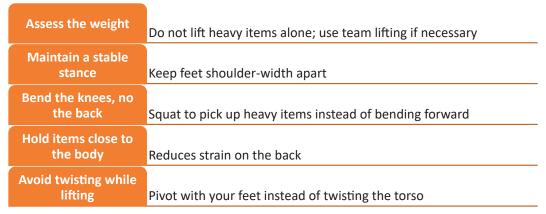


Fig. 11.1.3: Lifting techniques for heavy items

2. Handling Delicate Items



Fig. 11.1.4: Tips to handle delicate items

11.1.6 Safe Storage of Cleaning Equipment After Use

Safe storage of cleaning equipment after use is critical to maintaining a clean, organized, and hazard-free boutique environment. It ensures the longevity of the cleaning tools, prevents cross-contamination, and upholds professional hygiene standards expected in retail settings.

Importance of Proper Storage

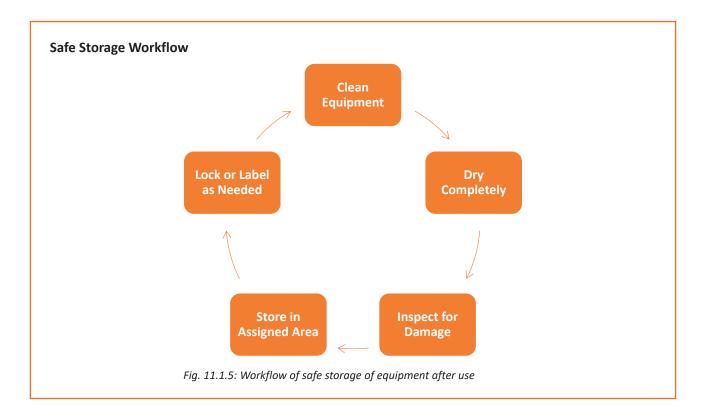
Benefit	Description	
Prolongs Equipment Life	Prevents wear, tear, and damage from improper storage	
Reduces Safety Hazards	Avoids slips, trips, and falls from misplaced equipment	
Maintains Hygiene	Keeps tools free from dust and bacteria build-up	
Enhances Efficiency	Makes equipment easy to find and use when needed	
Improves Store Presentation	Keeps back-of-house neat and professional	

Table 11.1.7: Benefits of proper storage of equipment

Best Practices for Safe Storage

Cleaning Tool	Storage Practice	Why It Is Important
Mops and Brooms	Hang vertically on wall-mounted holders	Prevents mildew and keeps bristles in shape
Microfiber Cloths	Store in labelled, dry containers after washing	Prevents contamination between clean/used cloths
Cleaning Liquids	Store upright in a locked, ventilated cabinet	Ensures safety and prevents spillage
Vacuum Cleaners	Store unplugged in a designated closet	Protects cord and body from damage
Steamer Tools	Empty water tanks, store upright on heat-proof mat	Prevents rust and leakage
Dustpans and Brushes	Stack neatly or hang using hooks	Keeps them clean and avoids clutter

Table 11.1.8: Safe storage after using the equipment



11.1.7 Safe Waste Disposal and Energy Conservation

Disposing of waste properly ensures a clean work environment and compliance with environmental regulations. Additionally, conserving energy by switching off machines when not in use reduces operational costs and environmental impact. A boutique, though primarily a retail space, generates various types of waste—from packaging materials and damaged garments to used cleaning supplies and electronic waste. Coupled with this is the daily energy consumed through lighting, air conditioning, garment steamers, sewing machines, and electronic billing systems. Addressing safe waste disposal and energy conservation not only ensures legal and environmental compliance but also contributes to operational efficiency, cost savings, and a responsible brand image.

Waste Disposal Procedures

Type of Waste	Disposal Method	Environmental Benefit
Fabric Scraps	Reuse or recycle	Reduces landfill waste
Paper Waste	Recycling bins	Saves resources
Chemical Waste	Special disposal units	Prevents pollution
Electronic Waste	E-waste recycling centers	Reduces toxic impact

Table 11.1.9: Waste disposal procedures

Energy Conservation Techniques

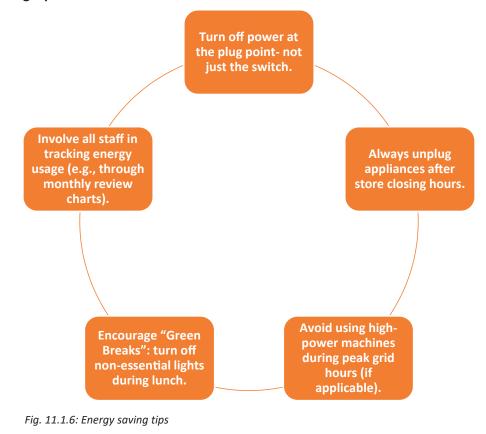
Energy conservation is not just an environmental responsibility—it directly reduces overheads. Boutiques can save significantly by building energy-conscious habits among staff and optimizing the usage of machines and utilities.

Simple Yet Effective Energy-Saving Methods

Energy Source	Conservation Technique	Expected Impact
Lighting	Use LED bulbs, turn off unused lights, maximize daylight	Reduces power bills and bulb replacement costs
Air Conditioning/ Heating	Use thermostats, keep doors closed, regular maintenance	Lowers energy load and prolongs machine life
Steaming and Ironing	Switch off when idle, and steam in batches	Cuts unnecessary energy drain
Sewing Machines	Turn off during breaks, unplug after use	Improves safety and reduces electricity
Display Screens/ Signage	Use energy-saving modes, limit display hours	Eco-friendly branding and lower power usage

Table 11.1.10: Conservation techniques

Energy Saving Tips



11.1.8 Importance of Switching Off Machines When Not in Use

Turning off machines when not in use is a crucial practice for conserving energy, maintaining workplace safety, and extending equipment lifespan.

Benefits of Switching Off Machines:

- Energy Conservation: Reduces unnecessary electricity consumption, lowering energy bills.
- Prevention of Overheating: Avoids excessive wear and tear that can damage components.
- Enhanced Safety: Reduces the risk of electrical hazards, short circuits, or accidental operation.
- Extended Equipment Lifespan: Prevents unnecessary strain on machinery, reducing repair costs.
- Compliance with Environmental Policies: Supports sustainability initiatives by minimizing energy waste.

Best Practices:

- Establish a shutdown checklist for employees to ensure all machines are turned off after work.
- Use automated power-off systems or timers to switch off equipment when idle.
- Train employees on the importance of energy-saving habits in the workplace.

11.1.9 Procedures for Conducting Maintenance of Tools and Equipment

Regular maintenance ensures optimal performance, reduces downtime, and prevents costly repairs. Maintenance activities can be classified into preventive and corrective maintenance.

Preventive Maintenance (PM)

Preventive maintenance is a planned, routine check-up and servicing of tools and machines to prevent breakdowns and extend equipment life.

Examples in a Boutique:

Equipment	Preventive Maintenance Tasks	Frequency
Garment Steamer	Descale, check heating element, inspect cord	Weekly
Sewing Machine	Oil moving parts, tighten screws, check belt	Bi-weekly
Vacuum Cleaner	Empty the dust bag, clean the filter, and check suction	After every use
Display Lighting	Clean covers, inspect wiring, replace flickering bulbs	Monthly
Iron/Press Machine	Check temperature dial, clean soleplate	Weekly

Table 11.1.11: Example of preventive maintenance in a boutique

Benefits:



Fig. 11.1.7: Benefits of maintaining tools

Corrective Maintenance (CM)

Corrective maintenance is performed after a fault has occurred, aiming to restore the tool or equipment to working condition.

Examples in a Boutique:

Equipment	Common Issues	Corrective Action	
Sewing Machine	Needle misalignment, thread jam	Realign the needle, rethread the mechanism	
Garment Steamer	Not heating or leaking	Replace heating element or hose	
Display Lighting	Flickering or dead light	Replace bulb or ballast	
Tag Gun	Jammed or broken needle	Replace the needle or fix the feeding mechanism	
Billing System	Printer jam or a software glitch	Clear jam, reboot system, contact IT if needed	

Table 11.1.12: Example of corrective maintenance in a boutique

Maintenance Procedures

Step	Description
Inspection	Check machines for visible wear, unusual noises, or malfunctions.
Cleaning	Remove dust, fabric particles, and debris from moving parts.
Lubrication	Apply oil or grease to mechanical parts to reduce friction and prevent rust.
Calibration	Adjust machine settings to ensure accuracy in stitching, cutting, or pressing.

Step	Description
Replacement of Parts	Change worn-out components such as needles, belts, or motors.
Testing	Run a trial operation to verify the machine's efficiency after servicing.
Documentation	Maintain a record of maintenance activities for tracking and compliance.

Table 11.1.13: Maintenance procedures

11.1.10 Identifying and Rectifying Common Equipment Faults

Detecting and fixing equipment faults promptly prevents work disruptions and ensures quality production.

Common Equipment Faults and Solutions:

Fault	Possible Cause	Solution
Sewing Machine Not Stitching	Thread tension imbalance, improper threading	Re-thread the machine and adjust tension settings
Frequent Needle Breakage	Incorrect needle size, bent needle	Replace with the correct type and size
Machine Overheating	Continuous use, lack of lubrication	Allow cooling time and lubricate moving parts
Fabric Getting Stuck	Feed dog issue, incorrect presser foot pressure	Clean the feed mechanism and adjust pressure
Irregular Stitching	Dull needle, incorrect bobbin winding	Change the needle and re-wind the bobbin properly

Table 11.1.14: Equipment faults and solutions

Steps to Rectify Faults:



Fig. 11.1.8: Steps to rectify faults

By proactively maintaining and troubleshooting equipment, businesses can ensure efficiency, reduce downtime, and minimize repair costs.

UNIT 11.2: Tools, Machinery, and Processes

- Unit Objectives



By the end of this unit, the participants will be able to:

- 1. Describe the various markers and tools required for marking.
- 2. Discuss the machines used for layering and spreading processes.
- 3. Identify and explain the different types of cutting machines (scissors, straight knife, band knife, laser cutting machine).
- 4. Evaluate testing working practices for equipment cleaning and maintenance.
- 5. Illustrate the appropriate handling of materials and tools.
- 6. Analyse methods for minimising wastage during operations.
- 7. Explain how to store waste materials such as paper, sketches, and electronic waste correctly.

11.2.1 Tools and Marking Equipment

Efficient use of tools, machinery, and operational processes enhances productivity in boutique operations. Understanding different cutting, marking, and spreading techniques helps employees optimize material usage, minimize wastage, and improve workflow.

Marking tools are essential for precise cutting and accurate pattern-making in boutique production.

Common Marking Tools and Their Uses

Tool Name	Purpose	Suitable Fabric Types
Tailor's Chalk	Temporary marking on fabric	Cotton, linen, wool
Tracing Wheel	Transfers pattern lines	Paper-based fabrics
Fabric Markers	Permanent markings	Synthetic fabrics

Tool Name	Purpose	Suitable Fabric Types
Pattern Notcher	Creates small pattern marks	Thick fabrics

Table 11.2.1: Marking tools and their uses

11.2.2 Machines Used for Layering and Spreading Processes

In garment manufacturing and apparel production settings, layering and spreading processes are essential preparatory steps before cutting fabric. These processes involve systematically laying out fabric in multiple layers, ensuring that each layer is aligned accurately and laid without tension or wrinkles. Proper layering improves cutting precision, minimizes material waste, and ensures uniformity across garment components.

Spreading Machines

Spreading machines are designed to lay fabric onto the cutting table with consistent tension and alignment. They significantly improve the speed and accuracy of the fabric spreading process, especially when working with large quantities. These machines vary in terms of automation and functionality.

Type of Spreading Machine	Key Features	Common Uses
Manual Spreader	Hand-operated, simple construction	Small production runs and lightweight fabrics
Semi-Automatic Spreader	Motorized feed with manual guidance	Medium-volume operations

Type of Spreading Machine	Key Features	Common Uses
Automatic Spreader		
	Fully programmable, auto edge alignment, tension control	High-volume, precision- driven fabric layouts

Table 11.2.2: Types of Spreading Machines

Layering Tools and Equipment

In addition to spreading machines, various accessories are used to aid in layering, such as:

- End Catchers: Hold the fabric firmly at the end of each layer.
- Weight Bars and Clamps: Prevent fabric slippage during spreading.
- Air Floatation Tables: Reduce friction, allowing fabric to glide smoothly.

These tools ensure that the fabric is spread evenly and remains flat and taut across the entire layer.

Safety and Maintenance Guidelines

- Operators must ensure edge control systems are functioning correctly to avoid misalignment.
- Machines should be cleaned regularly to remove lint, dust, and fabric residue.
- Moving parts must be lubricated and checked for wear and tear to avoid malfunction.
- Operators should be trained in the safe handling of rolls and machine operation.

- 11.2.3 Cutting Machines and Their Applications

Cutting machines are essential tools in the garment and textile industry, including boutique operations that handle tailoring, alterations, or custom clothing design. These machines are designed to cut fabric with precision, speed, and consistency- tasks that would be time-consuming and prone to error if done manually. In a boutique setting, cutting machines enhance productivity, reduce material waste, and ensure the accuracy of garment patterns.

Different cutting machines cater to various fabric types and production scales.

Machine Type	Description & Usage	Suitable for
Scissors Scissors Scissors	Manual cutting for small tasks	Light fabrics
Straight Knife	Used for bulk fabric cutting	Medium-weight fabrics
Band Knife	Continuous cutting of layers	Heavy fabrics
Laser Cutting	Precision cutting using laser	Delicate fabrics

Table 11.2.3: Types of Cutting Machines and Their Uses

11.2.4 Testing Working Practices for Equipment Cleaning and Maintenance

Proper testing of cleaning and maintenance practices ensures equipment longevity, safety, and efficiency. The following comprehensive evaluation criteria provide a framework for assessing these practices:

1. Effectiveness of Cleaning

- Ensure all external and internal components are free from dust, lint, debris, oil, and chemical residue.
- Use appropriate cleaning techniques for sensitive components such as sensors, filters, and cooling systems.
- Confirm proper disposal of waste and hazardous materials after cleaning.

2. Regularity of Maintenance

- Verify that scheduled maintenance activities are performed according to predefined intervals or manufacturer recommendations.
- Check if predictive maintenance tools (e.g., sensors, IoT diagnostics) are being used where applicable.
- Identify patterns in unplanned repairs and adjust schedules to reduce downtime.

3. Performance Testing

- Conduct functional and load testing post-maintenance to validate smooth operation.
- Compare current performance metrics with baseline measurements (e.g., noise levels, speed, pressure).
- Ensure calibration of measurement devices and tools after critical maintenance tasks.

4. Compliance with Safety Standards

- Confirm the use of certified cleaning agents and lubricants compatible with the equipment.
- Check adherence to OSHA, ISO, or local regulatory standards regarding cleaning and maintenance protocols.
- Validate that proper PPE (Personal Protective Equipment) is worn during operations.

5. Documentation Review

- Ensure all maintenance activities are logged with details such as date, technician, observations, parts replaced, and next due date.
- Evaluate digital logs (if CMMS is used) for real-time tracking and history.
- Monitor unresolved or recurring issues and the effectiveness of corrective actions.

6. Staff Training and Competency

- Assess whether technicians and cleaning personnel are adequately trained and certified.
- Conduct periodic refresher training on equipment-specific procedures and safety protocols.
- Evaluate awareness of emergency shutdown and hazard identification procedures.

7. Inventory and Spare Parts Management

- Check availability of essential spare parts and consumables required for routine maintenance.
- Verify that inventory records are updated and stock levels are adequate.
- Ensure use of genuine and compliant parts to maintain equipment warranty and performance.

8. Environmental and Sustainability Considerations

• Evaluate the environmental impact of cleaning agents and ensure use of eco-friendly products where possible.

- Ensure energy and water efficiency during cleaning processes.
- Monitor and minimize waste generated from maintenance activities.

9. Risk Assessment and Hazard Identification

- Regularly assess potential risks involved in cleaning and maintenance processes.
- Implement mitigation measures and update risk logs accordingly.
- Conduct job safety analysis (JSA) for high-risk tasks.

10. Audit and Continuous Improvement

- Schedule internal or third-party audits to verify adherence to SOPs and industry standards.
- Use audit findings to implement continuous improvement strategies.
- Encourage feedback from maintenance personnel to optimize procedures.

- 11.2.5 Appropriate Handling of Materials and Tools

Proper handling of materials and tools is essential to prevent damage, reduce waste, and ensure safety. When consistently applied, best practices contribute to high product quality, lower costs, and a safer working environment.

1. Best Practices for Material and Tool Handling

- Use the Right Tools for the Job
- Match tools to the specific task (e.g., rotary cutters for fabric patterns, pliers for precision tasks).
- Regularly inspect tools to ensure they are in good working condition and not worn or damaged.
- Avoid using makeshift tools as substitutes to reduce the risk of accidents or material damage.

2. Follow Safety Measures

• Always wear personal protective equipment (PPE), such as gloves, goggles, or aprons, when working with sharp, hot, or hazardous materials.



Fig. 11.2.1: Personal protective equipment (PPE)

- Follow ergonomic practices to prevent repetitive strain or lifting injuries.
- Maintain awareness of your surroundings, especially in shared workspaces.

3. Proper Storage of Materials and Tools

• Store tools in designated racks or toolboxes to prevent loss and injury.

- Keep materials like fabrics, chemicals, or metals in clean, labelled, and temperature-appropriate storage areas.
- Avoid stacking materials in unstable ways that could cause falls or damage.

4. Minimize Waste and Promote Efficiency

- Utilize pattern layouts or digital tools for efficient material usage.
- Repurpose scraps or by-products wherever possible to support sustainability.
- Measure twice, cut once verify dimensions and needs before using materials.

5. Handle with Care

- Use gentle, controlled movements to prevent breakage or fraying, especially with delicate materials.
- Transport heavy or fragile items using appropriate equipment (e.g., trolleys, lifting aids).
- Label fragile materials clearly and train staff in proper handling techniques.

6. Routine Maintenance and Cleaning of Tools

- Clean tools regularly to remove debris, adhesives, or buildup that can compromise functionality.
- Sharpen blades and maintain equipment to ensure precision and reduce effort during use.
- Keep maintenance records and schedule periodic checks for essential tools.

7. Labelling and Identification

- Clearly label tools and materials for easy identification and proper use.
- Use colour codes or tags to indicate material types, usage instructions, or safety notes.

8. Training and Skill Development

- Train staff in the correct handling of materials specific to their roles and tasks.
- Provide refresher training on handling procedures and tool usage as technology or materials change.
- Encourage skill development in precision handling and material conservation techniques.

9. Preventing Cross-Contamination

- Separate tools and materials based on their application (e.g., clean vs. dirty zones, chemical vs. non-chemical tools).
- Clean tools between uses, especially when switching between different materials or production stages.

10. Monitoring and Accountability

- Implement systems for tracking tool usage and material handling practices.
- Assign responsibility to team members for daily tool checks or material inventory.
- Encourage a culture of accountability and respect for shared tools and spaces.

-11.2.6 Waste Reduction and Proper Storage

Minimizing material wastage and storing leftover resources correctly improves sustainability and cost efficiency. These practices contribute to leaner production processes, better organization, and long-term resource optimization.

Waste Minimization Process

1. Plan Fabric Layout Efficiently

• Use software for pattern optimization and nesting layouts.

- Arrange pattern pieces to minimize gaps and offcuts.
- Test layouts on samples before full-scale production.

2. Reuse Scrap Materials for Accessories

- Convert leftover fabrics into items like patchwork, pouches, trims, or test swatches.
- Collaborate with artisans or NGOs who can repurpose scraps.
- Store usable scraps by size, type, or colour for future use.

3. Recycle Paper and Plastic Waste

- Segregate recyclable materials from general waste.
- Use recycled paper for internal documentation and packaging.
- Partner with certified recycling vendors to ensure responsible disposal.

4. Dispose of Unusable Waste Responsibly

- Follow local regulations for disposing of hazardous or non-recyclable materials.
- Maintain records of waste disposal for audit and sustainability reporting.
- Reduce single-use plastics and switch to compostable alternatives where possible.

5. Store Design Sketches and Digital Files Properly

- Use cloud-based storage for easy access and version control.
- Organize sketches, CAD files, and design references with consistent file naming conventions.
- Backup critical files regularly to avoid data loss.



Fig. 11.2.2: Process of Waste Minimization



Fig. 11.2.3: Closed-loop and open-loop mechanical recycling of textiles

Securely storing sketches and digital designs prevents data loss and protects intellectual property. A well-organized boutique requires efficient use of tools, proper machine maintenance, and sustainable practices. Understanding cutting, marking, and storage techniques helps reduce material wastage and improve production efficiency.

Proper Storage Practices

1. Organize Inventory Logically

- Categorize by type, colour, material, or usage frequency.
- Use transparent bins, tags, or barcode systems for easy tracking.

2. Maintain Clean and Climate-Controlled Storage Areas

- Keep storage environments dry and free from pests.
- Use proper ventilation and temperature control for sensitive items.

3. Rotate Inventory

- Apply FIFO (First In, First Out) methods to reduce material aging or spoilage.
- Monitor expiry dates for perishable materials like adhesives or chemicals.

4. Use Modular Shelving and Space-Efficient Storage

- Maximize vertical space to avoid clutter.
- Label shelves and boxes clearly for quick identification.

5. Secure High-Value or Hazardous Materials

- Store chemicals and sharp tools in locked cabinets.
- Limit access to authorized personnel and track usage.

-11.2.7 Methods of Storing Waste Materials

Proper storage of waste materials is essential for maintaining cleanliness, safety, and compliance with environmental regulations. Different types of waste require specific handling and storage methods to prevent contamination, fire hazards, or injuries.

Types of Waste and Their Storage Methods

Type of Waste Material	Storage Method	Labelling & Precautions
Fabric Scraps	Store in labelled bins or baskets by size/colour.	Use breathable containers to avoid mold; label for reuse.
Paper Waste	Collect in recycling bins lined with paper bags.	Clearly label as "Recyclable Paper."
Plastic Waste	Separate by type (e.g., soft, hard plastics) in durable plastic bins.	Use color-coded bins; avoid mixing with food or chemicals.
Chemical Waste	Store in corrosion-resistant, sealable containers in a ventilated area.	Label with hazard symbols and disposal instructions.
Glass Waste	Use rigid, shatterproof containers or barrels with padding.	Label as "Fragile – Glass Waste"; keep away from foot traffic.

Type of Waste Material	Storage Method	Labelling & Precautions
Metal Scraps	Place in heavy-duty bins or metal drums.	Store away from flammable items; keep dry to prevent rust.
Electronic Waste (E-Waste)	Keep in dry, covered shelves or containers; separate by component (e.g., wires).	Mark "E-Waste – Do Not Throw"; schedule pickups with recyclers.

Table 11.2.3: Types of waste and their storage methods

Steps for Safe Waste Storage



Fig. 11.2.4: Steps for safe waste storage

Best Practices for Safe Storage

- Ventilation: Ensure waste storage rooms are well-ventilated to avoid accumulation of fumes.
- Access Control: Limit access to hazardous waste storage to trained personnel only.
- Routine Checks: Schedule weekly inspections for leaks, overflow, or container damage.
- **Compliance:** Follow local municipal and environmental guidelines for hazardous and non-hazardous waste.

UNIT 11.3: Quality Control and Record-Keeping

- Unit Objectives



By the end of this unit, the participants will be able to:

- 1. Explain the company's quality standards and their importance.
- 2. List the types of records kept and methods for accurate completion.
- 3. Discuss the significance of keeping precise quality records.
- 4. Illustrate how to report quality issues to appropriate personnel.
- 5. Describe the importance of compliance with written instructions during operations.
- 6. Assess how to perform work functions according to organizational standards.
- 7. Explain organizational procedures for quality compliance and reporting.
- 8. Analyse communication lines, authority, and reporting protocols.

11.3.1 Importance of Quality Standards in Boutique Operations

Maintaining high-quality standards and accurate record-keeping is essential in the boutique industry. Quality control ensures that products meet customer expectations and comply with company guidelines. Accurate record-keeping helps track performance, identify defects, and maintain transparency in operations. Quality standards define the level of excellence a boutique strives for in its products and services. Compliance with these standards ensures customer satisfaction, reduces waste, and enhances brand reputation.

Key Quality Control Aspects

Quality Aspect	Description	Impact on Business
Fabric Inspection	Checking material for defects	Reduces returns
Stitching Quality	Ensuring even and strong seams	Enhances durability
Fit and Finish	Checking sizing and trims	Improves brand loyalty
Final Packaging	Proper labelling and folding	Enhances presentation

Table 11.3.1: Quality control aspects

Following quality control measures minimises product defects and maintains consistency in production.

Why Quality Standards Matter

Aspect	Impact on Boutique Operations
Customer Satisfaction	Ensures that every product meets or exceeds customer expectations, leading to repeat business.

Aspect	Impact on Boutique Operations
Brand Reputation	High-quality products reflect positively on the brand image and customer trust.
Waste Reduction	Consistent quality minimizes rework, material wastage, and production inefficiencies.
Cost Efficiency	Fewer defects and returns reduce the cost burden on the boutique.
Compliance	Ensures that products and services meet industry, legal, or ethical standards.
Product Longevity	Durable materials and proper finishing increase product life and perceived value.

Table 11.3.2: Importance of quality standards

Boutique Quality Management Cycle



Fig. 11.3.1: Management cycle to maintain boutique quality

11.3.2 Accurate Record-Keeping for Quality Management

Record-keeping is essential for tracking defects, maintaining compliance, and improving operations. Various types of records are maintained in a boutique setup.

Types of Quality Control Records

Record Type	Purpose	Responsible Personnel
Inspection Reports	Logs quality checks at different stages	Quality Inspector
Defect Records	Tracks common defects for analysis	Production Supervisor
Customer Feedback	Monitors satisfaction and complaints	Customer Service Team
Compliance Reports	Ensures adherence to legal standards	Compliance Officer

Table 11.3.3: Types of quality control records

Maintaining detailed records helps in tracking quality trends and resolving recurring issues.

11.3.3 Significance of Keeping Precise Quality Records

Keeping precise quality records is a crucial practice in boutique operations and other quality-focused industries. These records serve as both a reference and a roadmap for maintaining product excellence, identifying issues, and implementing improvements. They also ensure compliance, boost efficiency, and strengthen customer trust.

Why Precise Quality Records Matter

Purpose	Benefit
Track Production Performance	Identifies which products or processes meet standards or need improvement.
Trace Defects and Root Causes	Helps detect patterns of recurring issues, enabling quicker resolutions.
Ensure Accountability	Assigns responsibility for different stages of production and quality control.
Enable Corrective Actions	Provides data to guide rework and quality enhancements.
Maintain Consistency	Ensures each product batch meets the same standard over time.
Support Legal Compliance	Keeps a verifiable trail in case of audits or customer complaints.
Facilitate Staff Training	Offers real examples for educating new or existing employees.
Boost Customer Confidence	Reflects professionalism and reliability to clients and partners.

Table 11.3.4: Importance of keeping precise quality records

11.3.4 Reporting Quality Issues and Compliance Procedures

Employees should promptly report quality issues to relevant personnel for corrective action. Communication lines, authority structures, and compliance protocols help maintain smooth operations.

Quality Issue Reporting Process



Fig. 11.3.2: Quality issue reporting process

Ensuring compliance with written instructions, company policies, and legal regulations improves efficiency and reduces errors. Effective quality control and record-keeping are essential for boutique operations. By maintaining high standards, documenting processes, and reporting issues efficiently, businesses can ensure consistency, compliance, and customer satisfaction.

Importance of Reporting Quality Issues

- **Early Detection:** Timely reporting helps catch issues before they escalate or affect bulk production.
- Continuous Improvement: Data from reported issues can reveal process flaws or training gaps.
- **Regulatory Compliance:** Ensures adherence to safety, ethical, and industry quality regulations.
- **Customer Trust:** Minimizing defective outputs strengthens the brand's credibility and customer satisfaction.

Compliance Procedures to Uphold Standards

Procedure	Purpose
Standard Operating Procedures (SOPs)	Ensure that every product follows the same quality steps.
Internal Audits	Periodic checks of procedures, records, and products to ensure compliance.
Corrective and Preventive Actions (CAPA)	Formal process for resolving and avoiding repeated issues.
Training & Refresher Sessions	Keeps employees updated on compliance and quality practices.
Non-Conformance Reports (NCRs)	Used to track and address deviations from quality standards.

Table 11.3.5: Compliance Procedures to Uphold Standards

Best Practices for Effective Quality Reporting

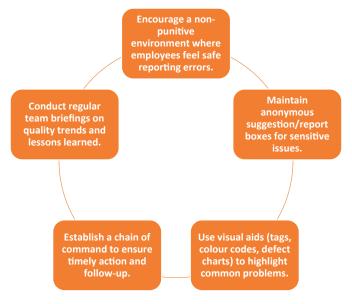


Fig. 11.3.3: Practices for effective quality reporting

11.3.5 Importance of Compliance with Written Instructions During Operations

In any organized production or service environment- especially within boutique operations, fashion units, or manufacturing setups- written instructions serve as the backbone of consistency, safety, and quality. These instructions, often in the form of Standard Operating Procedures (SOPs), process guidelines, checklists, or quality manuals, are developed to ensure that all tasks are carried out in a uniform, efficient, and error-free manner. Compliance with these written instructions is critical not only to meet customer expectations but also to ensure that operations align with industry regulations, safety norms, and internal quality benchmarks. By following documented protocols, businesses can prevent misunderstandings, avoid costly mistakes, and maintain accountability across various departments.

Written instructions also act as a reference point during training and upskilling, enabling new or temporary staff to quickly adapt to their roles. Moreover, in scenarios involving audits, inspections, or customer complaints, documented procedures and compliance records offer transparency and legal protection. Non-compliance, on the other hand, can lead to defective products, increased waste, safety hazards, and reputational damage. Therefore, cultivating a culture where written instructions are respected and followed is essential to achieving operational excellence and long-term success.

Following written instructions is essential to maintaining accuracy, efficiency, and safety in operations.

Key Benefits Ensures Reduces Improves Enhances Regulatory Consistency **Errors** Safety **Productivity** Compliance Standardized Minimizes Prevents Streamlined Helps meet procedures lead to mistakes caused by workplace workflows reduce industry standards delays and rework. uniform product misinterpretation accidents by and legal adhering to safety requirements. quality. or guesswork. protocols. Fig. 11.3.4: Benefits of compliance with written instructions during operations

11.3.6 Performing Work Functions According to Organizational Standards

Organizations set work standards to ensure efficiency, professionalism, and quality output. Every organization, regardless of size or sector, operates on a foundation of clearly defined work standards—a structured set of expectations that guide how tasks should be performed, how decisions are made, and how results are measured. These standards are not just rules on paper; they reflect the organization's values, commitment to quality, and its drive toward operational excellence. Performing work functions according to these standards ensures consistency, accountability, and efficiency across all levels of operation. Whether it is adhering to customer service protocols, maintaining product quality, following safety procedures, or meeting delivery timelines, aligning daily activities with organizational expectations is crucial. It minimizes errors, enhances coordination between departments, and builds a workplace culture rooted in discipline and reliability.

Moreover, organizational standards help bridge the gap between strategy and execution. They serve as a roadmap for employees, enabling them to perform their roles with clarity and confidence while also providing benchmarks for performance evaluation and improvement. For new hires, these standards offer a structured approach to onboarding; for seasoned staff, they reinforce a sense of shared purpose

and operational harmony. When employees perform their work functions in accordance with these standards, it contributes to higher productivity, customer satisfaction, and business sustainability. On the other hand, deviation from established norms can lead to inefficiencies, quality lapses, and reputational risk.

Therefore, understanding, respecting, and consistently following organizational standards is not only a professional responsibility but a key driver of collective success.

Key Aspects of Adhering to Standards

Time Management

 Completing tasks within set deadlines.

Workplace Conduct

• Following ethical and professional guidelines.

Quality Control

 Ensuring products meet set specifications.

Safety Measures

 Adhering to health and safety protocols.

Team Coordination

 Collaborating effectively with colleagues.

Fig. 11.3.5: Key aspects of adhering to standards

11.3.7 Organizational Procedures for Quality Compliance and Reporting

Ensuring quality compliance involves following systematic procedures to meet industry and company standards. Quality compliance refers to adherence to predefined benchmarks, guidelines, and regulations that govern the production and delivery of goods or services. Within an organization, this requires the establishment and implementation of systematic procedures that are designed to monitor, evaluate, and ensure quality at every stage of operation. Organizational procedures for quality compliance encompass everything from the selection of raw materials and execution of tasks to final product inspections and customer feedback analysis. These procedures are meticulously developed in alignment with industry norms, safety regulations, customer expectations, and internal quality policies. Their purpose is to create a consistent workflow that reduces errors, improves efficiency, enhances customer satisfaction, and ensures compliance with legal and regulatory frameworks.

Equally important is the process of reporting quality outcomes and deviations. A robust reporting mechanism enables the timely identification of defects, promotes transparency, and facilitates corrective or preventive actions. It ensures that decision-makers have access to real-time data and the insights necessary for maintaining operational excellence. By following well-defined procedures for quality compliance and reporting, organizations can standardize performance, foster accountability, and strengthen their brand reputation. These procedures not only safeguard product integrity but also empower teams to take ownership of quality and continuously strive for improvement.

Quality Compliance Process

Step	Description
Inspection	Check raw materials and final products for defects.
Testing	Conduct quality checks (e.g., durability, stitching accuracy).
Documentation	Record findings and quality control measures.
Corrective Actions	Address and rectify identified issues.
Reporting	Submit reports on compliance status and corrective measures.

Table 11.3.6: Quality compliance process

11.3.8 Analysing Communication Lines, Authority, and Reporting Protocols

Clear communication, well-defined authority levels, and systematic reporting protocols are critical pillars of efficient organizational functioning. In boutique operations, where product quality, creativity, and customer satisfaction intersect, miscommunication or unclear reporting lines can lead to production errors, safety lapses, or delays in service delivery. Therefore, understanding and analysing the flow of communication, the chain of command, and the methods of reporting is essential to maintaining efficiency, professionalism, and accountability.

Communication Lines in Boutique Operations

Effective communication ensures that information flows seamlessly between departments- design, procurement, production, quality control, and customer service. It reduces misunderstandings and helps all teams work toward a common goal.

Internal Communication Flow



Fig. 11.3.6: Communication flow in boutique operations

Reporting Protocols

Accurate and timely reporting is vital for tracking workflow, identifying challenges, and making informed decisions. Reports should follow a standardized format and timeline and be submitted to designated authorities.

Key Reporting Protocols:

- Daily Production Logs: Submitted by production team to supervisor
- Quality Checklists: Maintained by QC officer for every batch
- Inventory Reports: Weekly updates to track raw materials and finished goods
- Customer Feedback Reports: Monthly summary of reviews, complaints, and improvements
- Incident Reports: Immediately submitted in case of accidents, equipment failure, or quality issues

Best Practices for Effective Communication and Reporting



Fig. 11.3.7: Practices for effective communication and reporting

UNIT 11.4: Sustainability, Communication, and Problem-Solving

Unit Objectives



By the end of this unit, the participants will be able to:

- 1. Explain the importance of effective communication with colleagues and supervisors.
- 2. Discuss ways to resolve problems in the workplace.
- 3. Describe the importance of greening solutions, policies, and regulations.
- 4. Analyse the significance of resource optimisation in the workplace.
- 5. Assess methods for the conservation of energy in the apparel sector.
- 6. Illustrate the usage of eco-friendly solutions in operations.
- 7. Describe the importance of correct posture and maintaining a comfortable working position.
- 8. Explain the need for following organizational standards for sustainability.
- 9. Apply relevant legislation and environmental regulations in the workplace.
- 10. Discuss the importance of specified resource usage in work areas.
- 11. Analyse how to align operations with environmental policies and practices.
- 12. Describe how to carry out work functions in compliance with sustainability standards.

11.4.1 Effective Communication and Workplace Problem-Solving

Sustainability and effective communication are vital in the boutique industry. Integrating eco-friendly solutions, optimizing resources, and maintaining open communication channels improve productivity and compliance with environmental regulations. Clear communication ensures smooth workflow, minimizes errors, and improves teamwork. Effective problem-solving techniques help in addressing challenges proactively.

Communication Strategies in the Workplace

Strategy	Purpose	Benefits
Active Listening	Understanding team concerns	Reduces misunderstandings
Clear Instructions	Providing detailed guidance	Improves efficiency
Regular Meetings	Reviewing work progress	Enhances collaborations
Feedback Mechanism	Encouraging open discussions	Increases job satisfaction

Table 11.4.1: Communication strategies in the workplace

11.4.2 Ways to Resolve Problems in the Workplace

Workplace problems- ranging from miscommunication, performance issues, and conflicts to operational delays- can impact productivity, morale, and overall organizational success. Proactively resolving these issues fosters a positive work culture, enhances teamwork, and ensures smooth operations. Effective problem-solving requires structured approaches that involve identifying root causes, engaging relevant stakeholders, and implementing appropriate solutions.

Problem Resolution Cycle

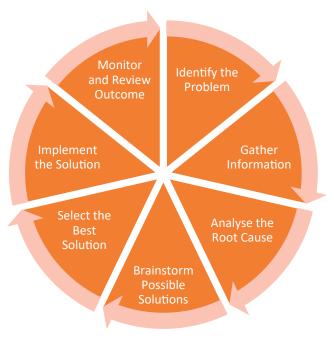


Fig. 11.4.1: Problem Resolution Cycle

Common Workplace Problems and Resolution Methods

Type of Problem	Examples	Resolution Method
Communication Gaps	Misunderstandings, unclear instructions	Hold team meetings, clarify roles, use written communication
Interpersonal Conflicts	Personality clashes, disagreements	Mediation, conflict resolution training, empathy-building exercises
Performance Issues	Low productivity, missed deadlines	One-on-one feedback, training, performance improvement plans
Operational Delays	Equipment failure, supply chain issues	Preventive maintenance, vendor communication, contingency planning
Quality Control Failures	Defective products, customer complaints	Root cause analysis, SOP updates, retraining staff
Misuse of Tools/ Materials	Wastage, tool damage	Proper training, supervision, and accountability policies

Table 11.4.2: Common Workplace Problems and their Resolution Methods

Tips for Effective Problem Resolution

- Listen Actively: Understand all perspectives before drawing conclusions.
- **Be Objective:** Focus on the problem, not the person.
- Stay solution-oriented: Shift the focus from blame to improvement.
- Document the Process: Maintain records of problems and how they were solved.
- **Encourage Team Involvement:** Foster a collaborative approach to solutions.
- Evaluate Outcomes: Ensure the solution was effective and sustainable.

11.4.3 Importance of Greening Solutions, Policies, and Regulations

What is a Greening Solution?

A greening solution refers to any practice, policy, or technology designed to minimize environmental impact and promote sustainability. In the apparel sector, greening solutions aim to reduce pollution, conserve resources, and ensure ethical production. These solutions encompass eco-friendly materials, energy-efficient processes, waste reduction techniques, and adherence to environmental regulations.

Importance of Greening Solutions, Policies, and Regulations

Greening solutions are vital for sustainable development, ensuring that businesses operate efficiently while reducing harm to the environment.

1. Environmental Protection

- Reduces carbon footprint by limiting energy and water consumption.
- Promotes waste management by recycling and reusing materials.

2. Compliance with Regulations

- Helps businesses adhere to environmental laws and avoid penalties.
- Encourages responsible production and ethical sourcing.

3. Cost Efficiency & Resource Conservation

- Minimizes production costs by using sustainable fabrics and energy-efficient machinery.
- Reduces material waste, improving overall efficiency.

4. Corporate Social Responsibility (CSR) & Brand Reputation

- Improves brand image as consumers prefer eco-conscious brands.
- Enhances customer loyalty and business sustainability.

Examples of Greening Policies in the Apparel Industry

Greening Policy	Description
Sustainable Sourcing	Using organic, biodegradable, or recycled fabrics like organic cotton and bamboo.
Eco-Friendly Dyeing	Switching to plant-based or waterless dyeing methods to reduce chemical waste.
Energy Conservation	Implementing solar power and LED lighting to reduce energy usage.

Greening Policy	Description
Water Recycling Systems	Reusing water in dyeing and finishing processes.
Waste Reduction	Adopting zero-waste patterns and upcycling fabric scraps.

Table 11.4.3: Examples of greening policies

11.4.4 Significance of Resource Optimisation in the Workplace

Resource optimization ensures that materials, energy, and human efforts are utilized effectively, reducing waste and improving productivity.

Key Benefits:

- Cost Reduction: Less waste leads to lower expenses.
- Efficiency Enhancement: Streamlined processes improve output.
- Sustainability: Reduces the environmental footprint.
- Workforce Productivity: Allocating tasks effectively maximizes employee potential.

Strategies for Resource Optimization:

- Lean Manufacturing: Eliminating waste in production processes.
- Inventory Management: Keeping track of material use to avoid overstocking or shortages.
- Energy-Efficient Machinery: Using technology that consumes less power.

Effective resource optimization promotes financial savings, sustainability, and operational excellence.

11.4.5 Methods for Energy Conservation in the Apparel Sector

Energy conservation is essential for reducing costs and minimizing environmental impact.

Effective Energy-Saving Methods

Method	Description
Efficient Machinery	Using energy-efficient sewing machines and cutting equipment.
Optimized Lighting	Switching to LED lighting to reduce electricity consumption.
Automated Systems	Installing motion sensors to turn off unused equipment.
Renewable Energy	Utilizing solar or wind energy for factory operations.
Maintenance Practices	Regular servicing of machines to improve efficiency.

Table 11.4.4: Effective energy-saving methods

11.4.6 Usage of Eco-Friendly Solutions in Operations

Incorporating eco-friendly solutions in apparel production helps reduce environmental damage and improve sustainability.

Eco-Friendly Practices in Apparel Operations:

- Sustainable Fabrics: Using organic cotton, hemp, and bamboo textiles.
- Water Recycling Systems: Reusing water in dyeing and washing processes.
- Biodegradable Packaging: Reducing plastic waste with paper or fabric packaging.
- Eco-Friendly Dyes: Using natural dyes instead of harmful chemical-based dyes.
- Digital Printing: Reducing ink and water wastage in fabric printing.

Adopting eco-friendly solutions enhances sustainability while maintaining high-quality production.

11.4.7 Importance of Correct Posture and Maintaining a Comfortable Working Position

In the apparel industry, workers often spend long hours performing tasks such as sewing, cutting, ironing, pattern making, and quality checking. These repetitive tasks, if performed in improper postures or uncomfortable positions, can lead to muscle fatigue, joint pain, repetitive strain injuries (RSIs), and long-term health issues like back pain or carpal tunnel syndrome. Therefore, maintaining the correct posture and ergonomic working environment is essential for both the well-being of employees and the productivity of operations.

Correct Posture Guidelines for Common Roles in Apparel Workspaces

Task	Description
Sewing Machine Work	 Sit upright with back supported Keep feet flat on the floor or foot pedal Elbows at a 90° angle Keep shoulders relaxed
Cutting Fabric	 Stand with feet shoulderwidth apart Bend knees slightly, not the back Use table at waist height
Ironing Garments	 Use heightadjustable boards Keep wrists straight Shift weight between legs while standing
Pattern Drafting	 Sit or stand with straight back Avoid hunching over the table Use an angled work surface if possible

Task	Description
Hand Stitching/Detailing	Support forearms on the table
	Keep neck straight
	Take microbreaks to stretch fingers and wrists

Table 11.4.5: Correct posture guidelines in the workplace

Benefits of Maintaining Proper Posture



Fig. 11.4.2: Benefits of maintaining proper posture

Tips for Maintaining Comfortable Working Conditions

• Use Ergonomic Chairs: Chairs should have lumbar support and adjustable height.



Fig. 11.4.3: Ergonomic chair

- Organize Tools Within Reach: Avoid overreaching and twisting the body frequently.
- **Keep Lighting Adequate:** Prevents eye strain and awkward head positioning.



Fig. 11.4.4: Adequate Lighting in garment factory

• Encourage Stretch Breaks: Promote brief stretching every 30–60 minutes to prevent stiffness.



Fig. 11.4.5: Stretch breaks

• Use Anti-Fatigue Mats: For workers who stand for long periods (e.g., cutting or ironing).



Fig. 11.4.6: Anti-fatigue mats

11.4.8 Sustainability and Resource Optimization

Boutique businesses must adopt sustainable practices to reduce environmental impact and optimize resource usage. Boutique businesses, particularly in the fashion and apparel sector, play a crucial role in shaping consumer behaviour and industry trends. As environmental concerns grow globally, boutiques must adopt sustainable practices and optimize resources to align with eco-friendly values, reduce operational waste, and build long-term brand loyalty. Sustainability is not just a trend- it is a responsibility and a competitive advantage.

By integrating sustainability into their core operations- from sourcing ethically produced fabrics to minimizing production waste and using recyclable packaging- boutiques can significantly lower their ecological footprint. Moreover, adopting a transparent supply chain and ensuring fair labour practices also contribute to social sustainability, making a boutique more attractive to conscious consumers. Investing in quality over quantity, creating timeless designs instead of fast fashion, and encouraging product longevity through customer education are powerful strategies that enhance both environmental impact and customer trust.

Sustainable boutiques not only support global environmental goals but also stand out in a crowded market by offering authentic value. Their commitment to responsible production can foster a loyal customer base, open up partnerships with green organizations, and ensure resilience against future regulatory pressures. Ultimately, sustainability empowers boutique businesses to not only do good for the planet but also secure a sustainable future for their brand.

Sustainable Practices in the Apparel Sector

Sustainability Aspect	Implementation Strategy	Environmental Benefit	
Energy Conservation	Use LED lighting, switch off machines	Reduces electricity consumption	
Waste Reduction	Recycle fabric scraps, minimize paper use	Decreases landfill waste	
Eco-friendly Materials	Use organic fabrics, biodegradable packaging	Lowers carbon footprint	
Water Management	Use efficient dyeing techniques	Saves water resources	

Table 11.4.6: Sustainable practices in the apparel sector

11.4.9 Compliance with Environmental Standards and Regulations

Following environmental policies ensures adherence to legal guidelines and corporate responsibility. Employees should understand resource management, proper waste disposal, and regulatory compliance.

Aligning Operations with Environmental Standards

1. Assess Current Sustainability Practices

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2. Identify Areas for Improvement

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3. Implement Green Policies (Energy, Waste, Materials)

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4. Train Employees on Environmental Standards

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5. Monitor and Update Sustainability Measures

Boutiques should integrate eco-friendly solutions in their daily operations to align with global sustainability trends.

Sustainability, communication, and problem-solving are key to successful boutique management. By fostering effective workplace communication, addressing challenges proactively, and following environmental regulations, businesses can operate efficiently while maintaining corporate responsibility.

11.4.10 Importance of Specified Resource Usage in Work Areas

Efficient resource usage in work areas is essential for minimizing waste, optimizing productivity, and reducing operational costs. In the apparel industry, this involves managing materials, energy, and human resources effectively.

Key Reasons for Specified Resource Usage:

- Prevents Resource Wastage: Ensures fabrics, threads, and trims are used efficiently.
- Reduces Environmental Impact: Lowers carbon footprint by using sustainable resources.
- Improves Cost Efficiency: Helps businesses save money by reducing excess consumption.
- Enhances Productivity: Streamlines workflows, leading to higher output and quality.

Examples of Effective Resource Management in Work Areas

Resource	Efficient Usage Practice
Fabric	Optimizing pattern layouts to minimize fabric wastage.
Electricity Using energy-efficient machines and switching off unused equipment.	
Water Recycling water used in fabric dyeing and finishing.	
Human Resources	Assigning tasks based on skills to maximize efficiency.

Table 11.4.7: Examples of effective resource management

11.4.11 Aligning Operations with Environmental Policies and Practices

Aligning business operations with environmental policies ensures legal compliance, sustainability, and corporate responsibility. Organizations must integrate eco-friendly practices, regulatory compliance, and green initiatives into their daily processes.

Ways to Align Operations with Environmental Policies



Fig. 11.4.7: Ways to align operations with environmental policies

11.4.12 Carrying Out Work Functions in Compliance with Sustainability Standards

Sustainability standards in the apparel sector ensure ethical production, reduced environmental harm, and responsible resource usage. These standards help companies meet global expectations for ecoconscious manufacturing.

Steps to Ensure Compliance with Sustainability Standards:

1. Use Sustainable Raw Materials:

- Prefer organic cotton, hemp, and recycled fabrics.
- Avoid materials with high environmental impact, such as synthetic fibers made from petrochemicals.

2. Follow Energy-Efficient Practices:

- Implement automated lighting and energy-efficient production processes.
- Use solar power or other renewable energy sources when possible.

3. Implement Waste Reduction Strategies:

- Adopt zero-waste design techniques to minimize fabric scraps.
- Recycle excess materials into new products or donate to upcycling projects.

4. Comply with Environmental Certifications:

- Follow standards like Global Organic Textile Standard (GOTS), OEKO-TEX, and Fair Trade certification.
- Ensure production processes meet international sustainability requirements.

5. Train Employees on Sustainable Practices:

- Provide workshops on eco-friendly garment production and waste management.
- Encourage employees to contribute innovative ideas for sustainability.

Summary



- The module helps learners understand how contamination affects products and how to prevent it through proper cleaning and safe storage of equipment.
- It teaches safe practices for handling tools and machinery, including correct lifting techniques and switching off machines when not in use.
- Participants will learn the proper use, storage, and disposal of cleaning materials and waste to maintain workplace hygiene.
- The course outlines how to maintain and repair tools and equipment, identifying and fixing faults to ensure smooth operations.
- Learners become familiar with tools and machines used in marking, layering, spreading, and cutting, including modern devices like laser cutting machines.
- It highlights best practices for handling materials and tools efficiently while minimising waste in operations.
- The importance of keeping accurate quality control records and following written instructions during tasks is also emphasised.
- Participants are trained in reporting quality issues and adhering to company standards for effective quality compliance.
- The module also promotes effective communication, teamwork, and practical problem-solving in a workplace setting.
- A strong focus is given to sustainability, energy conservation, eco-friendly solutions, and aligning work practices with environmental policies and laws.

Exercise

Multiple-choice Question:

- 1. What is one method to prevent contamination of products in the workplace?
 - a. Ignoring spills

- b. Using dirty equipment
- c. Regular cleaning of tools and machines
- d. Leaving food near workstations
- 2. Why is it important to switch off machines when not in use?
 - a. To cool down the area

b. To save energy and ensure safety

c. To avoid noise

- d. To clean faster
- 3. What type of machine is used for precise and modern cutting in apparel industries?
 - a. Band knife

b. Straight knife

c. Scissors

- d. Laser cutting machine
- 4. Which of the following is considered an eco-friendly workplace solution?
 - a. Using plastic bags

b. Keeping machines on all day

c. Recycling materials

- d. Disposing waste randomly
- 5. Why is accurate record-keeping important in quality control?
 - a. To waste time

b. For decoration

c. To ensure standards are met

d. To confuse workers

Descriptive Questions:

- 1. Explain how regular maintenance of tools and machines prevents workplace hazards.
- 2. Describe how communication with supervisors helps solve workplace problems.
- 3. What are some methods to reduce energy consumption in the apparel industry?
- 4. Why is it important to handle tools and materials properly in the workplace?
- 5. Describe how to safely store and dispose of cleaning equipment and waste after use.

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Scan the QR codes or click on the link to watch the related videos





https://youtu.be/_F_uHGnH7xQ?si=zsP9wUQGjo2WEnIQ

Energy conservation

https://youtu.be/GOKJAlQzhoc?si=JQpFiEQANL9NGR3F

Tools used in Garment Construction









12. Employability Skills



Employability Skills is available at the following location



https://www.skillindia digital.gov.in/content/list

Employability Skills









13. Annexure



Module No.	Unit No.	Topic Name	Page No	Link for QR Code (s)	QR code (s)
Unit 1.1: Roles and Responsibilities of a Sourcing Manager Unit 1.1: Roles and Responsibilities of a Sourcing Manager	Roles and	1.1.1 Size and Scope of the Apparel Indus- try in India	11	https://youtu.be/dSn7iz- bFN8?si=YLT-yo6gT8nMiYVI	Introduction to Apparel Industry
	1.1.2 Apparel Production Process and the Role of Sourcing Manager in Stitched Items	11	https://youtu.be/ QaS4sI0n5Qg?si=- OmWmWbc0N-zdOxhBF	Garments Full Production Process	
- Stitched Items	Unit 1.2: Various employment opportunities of a 'Sourcing Manager - Stitched Items in the apparel industry	1.2.2 Growth Opportunities	11	https://youtu.be/ VG3p5DpQY8c?si=fLvVceEo5- Q49Mw4J	The Textile and Apparel Sector in India
Module 2: Plan for the procurement of materials as per garment design requirements Unit 2.1: Types of Fabrics used in Sourcing	2.1.1 Analysing the Different Types of Wo- ven and Knit Fabrics and its Trade Name	56	https://youtu.be/_ p5UjCLK0R0?si=EnJx_ BXqyevLYe4R	Types Of Knit Fabric With Name	
		2.1.2 Different Types of Trims and Accesso- ries	56	https://youtu.be/ OHmjUCOQXUQ?si=- d5mijLLOyZ-UpB1W9	Trims And Accessories

Module No.	Unit No.	Topic Name	Page No	Link for QR Code (s)	QR code (s)
	Unit 2.2: Garment Manufactur- ing Process	2.2.1 National and Interna- tional Market Requirement and Trends	56	https://youtu.be/1PnGDmS-rV7Q?si=JBNpVQfe8Gqmx9ig	How Trend Research is Done in the Apparel Industry
	Unit 3.1: Negotiation with suppli- ers	3.1.1 Process of negotiation	84	https://youtu.be/DPxjSGK_ A9E?si=ICL80ZD7IYOg6TFX	Negotiation Skills
Module 3: Procure- ment of materials as per garment design require-	Unit 3.2: Supply chain	3.2.1 Process of supply chain management	84	https://youtu.be/ R8rYsCmAEEY?si=dVbQzxC75- 1gsw6EY	What is Supply chain Management (SCM)?
ments	management	3.2.4 Estimation of lead time and quantity related to material procurement	84	https://youtu.be/Nt4_oep- 3kI4?si=OvgMyMup6kmd2Yvw	What Is Lead Time In The Supply Chain?

Module No.	Unit No.	Topic Name	Page No	Link for QR Code (s)	QR code (s)
Module 4: Plan to procure	Unit 4.1: Types, Relative Value and Exchange Rate of International Currencies	4.1.1 Relative Value and Ex- change Rate	115	https://youtu.be/ Fn43flLIJGs?si=ktNEi9_ TaUtzEP1P	Reducing Gender Discrimination
materi- als from national and inter- national suppliers related to fabrics,		4.1.2 Factors affecting exchange rate and its impact on sourcing	115	https://youtu.be/suRw_3w- WTxg?si=B2f7bVHahpFlKEd3	Why Currencies
trims and accesso- ries	Unit 4.2: Organisation's Preference to Market-related to procurement	4.2.2 Supply Chain Manage- ment, Logistics and Business Administration	115	https://youtu.be/4-QU7WiVx- h8?si=wKdExeV0UO1qk8Cl	What is Logistics Management?
Module 5: Procure materi- als from national and inter- national suppliers	Unit 5.1: Procurement materials from suppli- ers	5.1.1 Logistics constraints related to procurements	136	https://youtu.be/ AvDNXGV0LpI?si=- 5rdzG9x94x7_Mq6W	What is Procurement and Understanding the Steps in Procurement Process
related to fabrics, trims and accesso- ries	Unit 5.2: Preparation of a supplier contract	5.2.1 Supplier contract with regards to returns and payment terms	136	https://youtu.be/wDaltiUA- RU4?si=MKz5hi8OL24QPotW	Contract Management

Module No.	Unit No.	Topic Name	Page No	Link for QR Code (s)	QR code (s)
Module 6: Prepare to supervise		6.1.1 Types of appraisal systems	152	https://youtu.be/ IGgOO2ZGpf0?si- =iM00_9F7BWvvtaTt	Performance Appraisal
and evaluate performance of subordinates	and evaluate performance of subordi-	6.1.2 Laid down process for perfor- mance ap- praisal system	152	https://youtu.be/ A4GklhGlSxM?si=aisFh8OFcL- TmTMqS	Performance appraisal method, Human Resource
Module 7: Super- vise and evaluate	Unit 7.1: Goals and Target for the Subordi- nates	7.1.1 Organisa- tional guide- lines	178	https://youtu.be/ Fe6Tmqx3V_s?si=pj82WmGXi- VzxQSZR	Organizational set-up of a Garment Manufacturing unit
the performance of subordinates	Unit 7.2: Quantified Measures and Metrics to analyse the Perfor- mance	7.2.2 Performance documents and its use during appraisal	178	https://youtu.be/cEdR5p0jR- U?si=ygpqZhnG-tIKU1Dh-	Overview of Employee Performance Appraisal System
Module 8: Preparation for maintenance of records about procurement of materials	Unit 8.1: Organization's Procedures for Disposal of Old Records	8.1.1 Computer operations and its applications required	195	https://youtu.be/TPeIPci2_ gA?si=z0YFT2tL6oai_2Oh	Basic Computer Operations

Module No.	Unit No.	Topic Name	Page No	Link for QR Code (s)	QR code (s)
		8.1.4 Purpose and Impor- tance of Stan- dard Operating Procedures	195	https://youtu.be/ Vhrerx1r5_U?si=xkNqulyJ- Q5Q4c7a	Document and Record Management
Module 9: Maintain records about pro- curement of materi- als Unit 9.1: Or- ganization's Procedures for Disposal of Old Re- cords	9.1.1 Disposal of Old Records	213	https://youtu.be/ HWWIpyU74HA?si=v0giOdeD- OT2bScCU	What is Record Keeping?	
	9.1.2 Mainte- nance of Up- dated Records of Approved Vendors	213	https://youtu.be/hXW8Eig- 6mao?si=rrC39De44yfyiI5U	Vendor Management	
Mod- ule 10: Maintain Health, Safety and Security in	Unit 10.2: Personal Protective Equipment (PPE) to be used during potential hazards	10.2.1 Health factors like First aid and CPR during potential hazards during sourcing	240	https://youtu.be/ DUaxt8OIT3o?si=v65TnwBA6- oWxRNht	CPR in Action
the Sourc- ing Depart- ment with Gender and PwD Sensitiza- tion	Unit 10.3: Health and safety sig- nage put in the organiza- tion	10.3.1 Im- portance of Protective equipment	240	https://youtu. be/28tV8zg8CKE?si=iO1_jJ6J_ oCjapTe	"Personal Protective Equipment (PPE)

Module No.	Unit No.	Topic Name	Page No	Link for QR Code (s)	QR code (s)
Module 11: Ensure Adherence to Indus- try, Regu- latory, and Organi- zational	Unit 11.1: Workplace Safety, Main- tenance, and Procedures	11.1.7 Safe Waste Disposal and Energy Conservation	286	https://youtu.be/_F_uHGn- H7xQ?si=zsP9wUQGjo2WEnIQ	Energy conservation
Standards, While Incorpo- rating the Principles of Envi- ronmental Sustain- ability	Unit 11.2: Tools, Ma- chinery, and Processes	11.2.1 Tools and Marking Equipment	286	https://youtu.be/ GOKJAlQzhoc?si=JQpFiEQANL- 9NGR3F	Tools used in Garment Construction













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