LAPT

LONDON ACADEMY OF PROFESSIONAL TRAINING

CERTIFICATE

Certificate in Apparel Production and Quality

C

LAPT — London Academy of Professional Training

Address 85 Great Portland Street, W1W 7LT, London, United Kingdom

Email info@lapt.org

Telephone +44 7513 283044

Web lapt.org

Reference FAS-C04 • Fashion Centres

UKPRN 10067351 • Registered in England and Wales, company 4984798

4	100	638	400	60%	Lifetime
SUBJECTS	CHAPTERS	CLASSES	TOTAL MARKS	PASS MARK	VALIDITY

AT A GLANCE

REFERENCE	**FAS-C04**
AWARD	**Certificate**
ASSESSMENT	**400 marks — 240 to pass (60%)**
PREREQUISITES	**None**
VALIDITY	**Lifetime**
AWARDING BODY	**LAPT — London Academy of Professional Training**

CURRICULUM

1

Apparel Production and Manufacturing

30 chapters · 180 classes **100 marks**

- **1 Understanding Fabric Properties and Selection** — 6 classes
  - 1.1 Exploring Key Fabric Attributes
  - 1.2 Analyzing Fabric Composition
  - 1.3 Understanding Weave and Knit Structures
  - 1.4 Evaluating Fabric Performance for Design
  - 1.5 Selecting Fabrics Based on End-Use
  - 1.6 Applying Fabric Knowledge to Production Planning
- **2 Advanced Pattern Making and Cutting Techniques** — 6 classes
  - 2.1 Exploring Advanced Pattern Drafting Techniques
  - 2.2 Utilizing Computer-Aided Design (CAD) in Pattern Making
  - 2.3 Innovating with Draping and Manipulative Techniques
  - 2.4 Mastering Precision Cutting for Complex Garments
  - 2.5 Implementing Seam and Hem Finishing Techniques
  - 2.6 Integrating Quality Control in Cutting and Production
- **3 Efficient Garment Construction Methods** — 6 classes
  - 3.1 Exploring Efficient Pattern-Cutting Techniques
  - 3.2 Mastering Speed Sewing for Quality Outcomes
  - 3.3 Understanding Seamless Garment Assembly Methods
  - 3.4 Implementing Time-Saving Pressing Techniques
  - 3.5 Integrating Technology in Garment Production
  - 3.6 Evaluating and Improving Production Efficiency
- **4 Integrating Technology in Fashion Production** — 6 classes
  - 4.1 Exploring Smart Fabrics and Embedded Technology
  - 4.2 Understanding CAD Systems in Fashion Design
  - 4.3 Implementing 3D Printing in Garment Creation
  - 4.4 Optimising Production with Automation Technology
  - 4.5 Integrating RFID for Efficient Inventory Management
  - 4.6 Evaluating Impact of Technology on Production Quality
- **5 Quality Control and Assurance in Fashion** — 6 classes
  - 5.1 Understanding Quality Standards in Fashion
  - 5.2 Identifying Common Quality Control Issues
  - 5.3 Implementing Quality Assurance Processes
  - 5.4 Utilizing Quality Inspection Tools
  - 5.5 Evaluating Product Quality in Fashion
  - 5.6 Improving Quality Control Strategies
- **1 Introduction to Fashion Production Technology** — 6 classes
  - 1.1 Exploring Fashion Production Technologies
  - 1.2 Understanding the Role of Technology in Fashion Design
  - 1.3 Identifying Key Tools in Fashion Production
  - 1.4 Analyzing the Impact of Technology on Quality Control
  - 1.5 Integrating Technology for Efficient Fashion Workflows
  - 1.6 Evaluating Technological Innovations in Fashion Manufacturing
- **2 Digital Pattern Making and 3D Design** — 6 classes
  - 2.1 Exploring Digital Pattern Making Tools
  - 2.2 Understanding 3D Design Software Interfaces
  - 2.3 Creating Basic Patterns Using Digital Tools
  - 2.4 Applying 3D Design Techniques to Garment Visualization
  - 2.5 Integrating Digital Patterns into Production Workflows
  - 2.6 Evaluating the Efficiency of Digital vs. Traditional Methods
- **3 Fabric Cutting and Automated Sewing Systems** — 6 classes
  - 3.1 Understanding the Basics of Fabric Cutting
  - 3.2 Exploring Manual vs Automated Cutting Techniques
  - 3.3 Introduction to Automated Sewing Systems
  - 3.4 Comparing Traditional and Automated Sewing Methods
  - 3.5 Implementing Automated Systems for Efficient Production
  - 3.6 Analyzing Quality Control in Automated Fashion Production
- **4 Quality Control Technologies in Fashion Production** — 6 classes
  - 4.1 Understanding Quality Control in Fashion Production
  - 4.2 Exploring Key Technologies in Quality Control
  - 4.3 Utilizing Measurement Tools for Quality Assurance
  - 4.4 Integrating Inspection Methods in Fashion Production
  - 4.5 Implementing Data-Driven Quality Improvement Strategies
  - 4.6 Evaluating the Impact of Technology on Quality Control Processes
- **5 Sustainability and Technological Innovations in Fashion Production** — 6 classes
- **1 Understanding Sustainable Supply Chain Practices in Fashion** — 6 classes
  - 1.1 Exploring Sustainability Concepts in Fashion Supply Chains
  - 1.2 Identifying Environmental Impacts in Fashion Production
  - 1.3 Analyzing Ethical Considerations in Fashion Sourcing
  - 1.4 Implementing Sustainable Materials in Fashion Design
  - 1.5 Evaluating Supply Chain Transparency and Traceability
  - 1.6 Applying Circular Economy Principles in Fashion
- **2 Evaluating Performance Metrics for Fashion Supply Chains** — 6 classes
  - 2.1 Understanding Key Performance Indicators in Fashion Supply Chains
  - 2.2 Analyzing Cost Efficiency Metrics in Fashion Operations
  - 2.3 Exploring Environmental Impact Measurements
  - 2.4 Assessing Social and Ethical Performance Metrics
  - 2.5 Comparing Time-to-Market and Delivery Accuracy
  - 2.6 Applying Balanced Scorecard Techniques to Fashion Supply Chains
- **3 Implementing Lean Operations and Waste Minimization** — 6 classes
  - 3.1 Understanding Lean Principles in Operations
  - 3.2 Identifying and Evaluating Waste in Supply Chains
  - 3.3 Implementing Value Stream Mapping Techniques
  - 3.4 Applying 5S Methodology for Workplace Efficiency
  - 3.5 Adopting Just-In-Time Inventory Management
  - 3.6 Developing a Continuous Improvement Culture
- **4 Integrating Technology for Enhanced Supply Chain Performance** — 6 classes
  - 4.1 Understanding the Role of Technology in Supply Chains
  - 4.2 Exploring Key Technologies for Supply Chain Management
  - 4.3 Implementing IoT for Real-time Supply Chain Monitoring
  - 4.4 Leveraging Data Analytics for Supply Chain Optimization
  - 4.5 Enhancing Supply Chain Visibility with Blockchain
  - 4.6 Evaluating the Impact of Automation on Supply Chain Efficiency
- **5 Leadership for Sustainable Transformation in Fashion Supply Chains** — 6 classes
  - 5.1 Understanding Leadership's Role in Fashion Supply Chains
  - 5.2 Analyzing Sustainability Challenges Faced by Fashion Leaders
  - 5.3 Exploring Innovative Leadership Models for Sustainable Change
  - 5.4 Implementing Sustainable Practices in Supply Chain Operations
  - 5.5 Cultivating a Mindset for Continuous Improvement in Fashion Supply
  - 5.6 Evaluating Performance Metrics for Sustainable Leadership Success
- **1 Understanding the Fashion Manufacturing Ecosystem** — 6 classes
  - 1.1 Mapping the Fashion Manufacturing Ecosystem
  - 1.2 Identifying Key Players and Their Roles
  - 1.3 Analyzing Supply Chain Dynamics
  - 1.4 Exploring Technological Innovations
  - 1.5 Evaluating Environmental and Ethical Considerations
  - 1.6 Applying Strategic Insights to Manufacturing Models
- **2 Strategic Sourcing and Supply Chain Management in Fashion** — 6 classes
  - 2.1 Understanding the Fashion Supply Chain Ecosystem
  - 2.2 Identifying Strategic Sourcing Opportunities
  - 2.3 Analyzing Supplier Relationships and Partnerships
  - 2.4 Evaluating Risk Management in Fashion Supply Chains
  - 2.5 Implementing Sustainable Sourcing Practices
  - 2.6 Optimizing Supply Chain Performance through Innovation
- **3 Innovative Technologies and Production Techniques in Fashion** — 6 classes
  - 3.1 Understanding Emerging Technologies in Fashion Manufacturing
  - 3.2 Analyzing the Impact of Automation on Production Efficiency
  - 3.3 Exploring Sustainable Materials and Eco-Friendly Techniques
  - 3.4 Integrating 3D Printing into Fashion Production Processes
  - 3.5 Leveraging Data Analytics for Optimizing Manufacturing Strategies
  - 3.6 Implementing Blockchain for Supply Chain Transparency
- **4 Quality Management and Compliance in Fashion Production** — 6 classes
  - 4.1 Exploring Quality Standards in Fashion Production

2

Quality Control in Production

22 chapters · 122 classes **100 marks**

- **1 Understanding Standards and Specifications in Industrial Sewing** — 4 classes
  - 1.1 Exploring Industrial Sewing Standards
  - 1.2 Analyzing Specifications for Different Fabrics
  - 1.3 Identifying Quality Control Measures in Sewing
  - 1.4 Applying Standards to Evaluate Sewing Projects
- **2 Techniques for Quality Assessment in Garment Production** — 4 classes
  - 2.1 Understanding Quality Standards in Garment Production
  - 2.2 Identifying Common Defects in Industrial Sewing
  - 2.3 Methods for Inspecting and Testing Garment Quality
  - 2.4 Implementing Continuous Improvement for Quality Assurance
- **3 Implementing Quality Control Systems in Sewing Workshops** — 4 classes
  - 3.1 Understanding Quality Standards in Sewing Workshops
  - 3.2 Identifying Key Quality Control Techniques in Sewing
  - 3.3 Implementing Inspection Protocols for Sewing Projects
  - 3.4 Analyzing and Improving Quality Control Outcomes
- **1 Understanding Quality Standards in Fashion** — 5 classes
  - 1.1 Defining Quality Standards in Fashion
  - 1.2 Identifying Key Quality Metrics in Garment Production
  - 1.3 Exploring Quality Control Tools and Techniques
  - 1.4 Evaluating Garment Quality Against Industry Standards
  - 1.5 Implementing Continuous Quality Improvement in Fashion Production
- **2 Materials and Component Quality Inspection** — 5 classes
  - 2.1 Understanding Material Quality Standards
  - 2.2 Identifying Common Material Flaws
  - 2.3 Evaluating Component Quality in Fashion Items
  - 2.4 Techniques for Inspecting Material Consistency
  - 2.5 Implementing Quality Control Measures
- **3 Quality Control in Garment Production Process** — 5 classes
  - 3.1 Understanding the Role of Quality Control in Garment Production
  - 3.2 Identifying Common Defects in Textile Materials
  - 3.3 Implementing Quality Control Techniques in Sewing Processes
  - 3.4 Evaluating Garment Quality through Inspection Protocols
  - 3.5 Utilizing Quality Management Systems for Continuous Improvement
- **4 Quality Assurance and Final Inspection Techniques** — 5 classes
  - 4.1 Understanding Quality Assurance in Fashion Production
  - 4.2 Identifying Common Defects in Garment Production
  - 4.3 Implementing Quality Control Measures Effectively
  - 4.4 Conducting Final Inspections with Precision
  - 4.5 Utilizing Feedback to Improve Production Quality
- **1 Understanding Quality Control in Fashion Production** — 6 classes
  - 1.1 Defining Quality in Fashion Production
  - 1.2 Exploring Key Quality Standards and Certifications
  - 1.3 Identifying Common Quality Issues in Garment Manufacturing
  - 1.4 Analyzing Quality Control Processes and Techniques
  - 1.5 Implementing Quality Assurance Protocols
  - 1.6 Evaluating Quality Control Success in Fashion Production
- **2 Textile and Material Quality Assessment Techniques** — 6 classes
  - 2.1 Understanding Textile Quality Indicators
  - 2.2 Exploring Material Inspection Techniques
  - 2.3 Evaluating Color Fastness in Fabrics
  - 2.4 Assessing Fabric Durability and Strength
  - 2.5 Implementing Standard Testing Procedures
  - 2.6 Applying Quality Control in Production Settings
- **3 Garment Inspection Procedures and Standards** — 6 classes
  - 3.1 Understanding Garment Inspection: Purpose and Benefits
  - 3.2 Identifying Common Garment Defects and Their Causes
  - 3.3 Learning Industry Standards for Quality Apparel
  - 3.4 Implementing Visual Inspection Techniques
  - 3.5 Utilizing Measuring Tools for Precise Assessment
  - 3.6 Applying Corrective Actions for Quality Improvement
- **4 Quality Control Tools and Technologies in Fashion** — 6 classes

- **5 Advanced Quality Control Strategies and Sustainable Practices** — 6 classes
  - 5.1 Understanding Advanced Quality Control Techniques
  - 5.2 Identifying Sustainable Practices in Fashion Production
  - 5.3 Implementing Continuous Improvement Processes
  - 5.4 Analyzing the Impact of Quality Control on Sustainability
  - 5.5 Applying Eco-Friendly Quality Control Methods
  - 5.6 Evaluating Success of Quality Strategies in Fashion
- **1 Introduction to Quality Management Systems in Fashion** — 6 classes
  - 1.1 Understanding the Basics of Quality Management in Fashion
  - 1.2 Exploring Key Components of Quality Management Systems
  - 1.3 Analyzing the Role of Standards in Fashion Quality Control
  - 1.4 Identifying Quality Control Processes in Fashion Production
  - 1.5 Examining Common Tools Used in Quality Management
  - 1.6 Applying Quality Management Principles to Fashion Case Studies
- **2 Components of Quality Management Systems** — 6 classes
  - 2.1 Understanding the Fundamentals of Quality Management Systems
  - 2.2 Identifying Key Components of a Quality Management System
  - 2.3 Analyzing the Role of Documentation in Quality Management
  - 2.4 Integrating Continuous Improvement Practices
  - 2.5 Implementing Standards for Quality Assurance
  - 2.6 Evaluating the Effectiveness of Quality Management Systems
- **3 Designing Quality Control Processes for Fashion Production** — 6 classes
  - 3.1 Understanding the Basics of Quality Control in Fashion
  - 3.2 Identifying Key Quality Indicators in Fashion Products
  - 3.3 Designing Inspection Methods for Fashion Items
  - 3.4 Implementing Statistical Quality Control Techniques
  - 3.5 Analyzing Quality Control Data for Continuous Improvement
  - 3.6 Developing a Quality Control Plan for Fashion Production
- **4 Implementation Strategies for Quality Management Systems** — 6 classes
  - 4.1 Understanding Quality Management Systems
  - 4.2 Identifying Key Standards and Regulations
  - 4.3 Designing a Quality Management Framework
  - 4.4 Developing Implementation Plans
  - 4.5 Monitoring and Evaluating System Effectiveness
  - 4.6 Continuous Improvement and System Optimization
- **5 Evaluating and Improving Fashion Quality Systems** — 6 classes
  - 5.1 Understanding Key Components of Fashion Quality Systems
  - 5.2 Identifying Common Quality Issues in Fashion Production
  - 5.3 Analyzing the Effectiveness of Current Quality Control Measures
  - 5.4 Implementing Continuous Improvement Processes
  - 5.5 Integrating Customer Feedback into Quality Systems
  - 5.6 Designing a Plan for Quality Systems Enhancement
- **1 Understanding Risk Management in Fashion Manufacturing** — 6 classes
  - 1.1 Exploring the Basics of Risk Management in Fashion
  - 1.2 Identifying Key Risks in Fashion Manufacturing
  - 1.3 Analyzing Risk Factors Affecting Fashion Supply Chains
  - 1.4 Evaluating Risk Mitigation Techniques in Apparel Production
  - 1.5 Understanding the Role of Quality Control in Risk Management
  - 1.6 Implementing Risk Management Strategies in Fashion
- **2 Assessing Supply Chain Vulnerabilities** — 6 classes
  - 2.1 Identifying Risks in Fashion Supply Chains
  - 2.2 Analyzing Potential Supply Chain Disruptions
  - 2.3 Evaluating Supplier Reliability and Performance
  - 2.4 Mapping the Supply Chain for Vulnerability Assessment
  - 2.5 Implementing Risk Mitigation Strategies
  - 2.6 Monitoring and Reviewing Risk Management Performance
- **3 Implementing Quality Control Systems** — 6 classes
  - 3.1 Understanding Quality Control Basics
  - 3.2 Identifying Key Quality Standards in Fashion Manufacturing
  - 3.3 Designing Effective Quality Control Processes

3

Supply Chain and Sustainable Production

36 chapters · 216 classes **100 marks**

- **1 Understanding Global Fashion Supply Chains** — 6 classes
  - 1.1 Exploring the Structure of Global Fashion Supply Chains
  - 1.2 Identifying Key Players and Their Roles
  - 1.3 Analyzing the Impact of Globalization on Fashion Supply Chains
  - 1.4 Evaluating Logistics and Distribution Strategies
  - 1.5 Understanding Sustainable Practices in Fashion Supply Chains
  - 1.6 Assessing the Challenges in Optimizing Global Supply Chains
- **2 Strategic Sourcing and Supplier Management** — 6 classes
  - 2.1 Understanding Strategic Sourcing in Fashion Retail
  - 2.2 Identifying and Evaluating Potential Suppliers
  - 2.3 Developing Supplier Relationships and Partnerships
  - 2.4 Analyzing Cost Structures and Negotiation Strategies
  - 2.5 Implementing Supplier Performance Metrics
  - 2.6 Applying Risk Management in Supplier Selection
- **3 Inventory Management and Demand Forecasting** — 6 classes
  - 3.1 Understanding Inventory Types and Their Roles in Fashion Retail
  - 3.2 Analyzing Demand Patterns in Global Fashion Markets
  - 3.3 Introduction to Demand Forecasting Models for Fashion
  - 3.4 Implementing Effective Stock Replenishment Strategies
  - 3.5 Leveraging Technology for Real-Time Inventory Tracking
  - 3.6 Evaluating Supply Chain Performance in Fashion Retail
- **4 Logistics and Distribution Optimization** — 6 classes
  - 4.1 Understanding Logistics in Fashion Retail
  - 4.2 Exploring Distribution Models for Efficiency
  - 4.3 Analyzing Logistics Costs and Their Impact
  - 4.4 Integrating Technology in Supply Chain Tracking
  - 4.5 Optimizing Delivery Routes and Times
  - 4.6 Implementing Sustainable Logistics Practices
- **5 Sustainability and Ethical Considerations in Supply Chains** — 6 classes
  - 5.1 Understanding Sustainability in Global Fashion Supply Chains
  - 5.2 Analysing Ethical Sourcing Practices in Fashion Retail
  - 5.3 Evaluating Environmental Impact and Mitigation Strategies
  - 5.4 Identifying Social Responsibility in Supply Chain Operations
  - 5.5 Integrating Sustainable Practices in Fashion Logistics
  - 5.6 Applying Ethical Frameworks to Supply Chain Decision-Making
- **1 Understanding the Basics of Sustainable Supply Chains in Fashion** — 6 classes
  - 1.1 Exploring the Concept of Sustainability in Fashion
  - 1.2 Identifying Key Components of Sustainable Supply Chains
  - 1.3 Analyzing Environmental Impacts of Fashion Supply Chains
  - 1.4 Assessing Social Considerations in Supply Chain Practices
  - 1.5 Evaluating Economic Benefits of Sustainable Practices
  - 1.6 Implementing Sustainable Strategies in Fashion Supply Chains
- **2 Evaluating Environmental and Social Impacts of Fashion Supply Chains** — 6 classes
  - 2.1 Understanding Fashion Supply Chain Structures
  - 2.2 Analyzing Environmental Impacts in Fashion Production
  - 2.3 Evaluating Social Challenges in Supply Chains
  - 2.4 Identifying Key Indicators of Sustainability
  - 2.5 Assessing Fashion Brands' Sustainability Efforts
  - 2.6 Managing Pre-Production Processes
- **3 Implementing Sustainable Sourcing and Material Management** — 6 classes
  - 3.1 Understanding Sustainable Sourcing Principles
  - 3.2 Analyzing Material Management in Supply Chains
  - 3.3 Identifying Key Sustainable Sourcing Practices
  - 3.4 Integrating Eco-friendly Materials into Supply Chains
  - 3.5 Evaluating Impact and Metrics for Sustainable Sourcing
  - 3.6 Implementing Sustainable Sourcing Strategies
- **4 Optimizing Production Processes for Sustainability** — 6 classes
  - 4.1 Understanding Sustainable Production Principles
  - 4.2 Analyzing the Environmental Impact of Production Processes
  - 4.3 Identifying Key Areas for Process Optimization
  - 4.4 Implementing Resource Efficiency Techniques
- **3 Innovative Technologies Transforming Supply Chain Leadership** — 6 classes
  - 3.1 Understanding the Role of Technology in Supply Chain Leadership
  - 3.2 Analyzing the Impact of IoT on Supply Chain Processes
  - 3.3 Harnessing AI for Supply Chain Decision-Making
  - 3.4 Implementing Blockchain for Enhanced Supply Chain Transparency
  - 3.5 Leveraging Big Data for Predictive Supply Chain Strategies
  - 3.6 Integrating Innovative Technologies for Sustainable Supply Chains
- **4 Risk Management and Ethical Decision-Making in Fashion Supply Chains** — 6 classes
  - 4.1 Understanding Risk in Fashion Supply Chains
  - 4.2 Identifying Ethical Dilemmas in Supply Chain Operations
  - 4.3 Analyzing Risk Management Strategies
  - 4.4 Developing Ethical Decision-Making Frameworks
  - 4.5 Implementing Risk Mitigation Techniques
  - 4.6 Evaluating Case Studies in Ethical Supply Chain Leadership
- **5 Leading Change and Continuous Improvement in Sustainable Supply Chains** — 6 classes
  - 5.1 Understanding the Dynamics of Change in Supply Chains
  - 5.2 Identifying Barriers to Sustainable Change
  - 5.3 Strategies for Leading Effective Change Initiatives
  - 5.4 Embracing Continuous Improvement Practices
  - 5.5 Implementing Change with Sustainable Impact
  - 5.6 Measuring and Evaluating Change Success in Supply Chains
- **1 Emerging Technologies Transforming Fashion Supply Chains** — 6 classes
  - 1.1 Explore: Digital Innovation in Fashion Supply Chains
  - 1.2 Analyze: The Role of AI in Streamlining Fashion Logistics
  - 1.3 Discover: Blockchain Applications for Transparency in Fashion
  - 1.4 Understand: Using IoT for Real-Time Supply Chain Monitoring
  - 1.5 Evaluate: The Impact of 3D Printing on Fashion Production
  - 1.6 Apply: Integrating Innovative Technologies into Sustainable Practices
- **2 Sustainable Material Innovations and Procurement Strategies** — 6 classes
  - 2.1 Understanding Sustainable Material Standards
  - 2.2 Exploring Innovative Sustainable Fabrics
  - 2.3 Assessing Material Lifecycle Impacts
  - 2.4 Evaluating Eco-Friendly Procurement Practices
  - 2.5 Implementing Circular Supply Chain Models
  - 2.6 Integrating Sustainable Innovations into Strategy
- **3 Data-Driven Approaches in Fashion Supply Chains** — 6 classes
  - 3.1 Understanding Big Data in Fashion Supply Chains
  - 3.2 Analyzing Consumer Trends with AI Tools
  - 3.3 Leveraging Predictive Analytics for Inventory Management
  - 3.4 Integrating Data-Driven Strategies for Sustainability
  - 3.5 Implementing Real-Time Data for Operational Efficiency
  - 3.6 Evaluating the Impact of Data-Driven Decisions in Fashion
- **4 Circular Economy and Closed-Loop Supply Chains** — 6 classes
  - 4.1 Understanding Circular Economy Principles
  - 4.2 Identifying Key Components of Closed-Loop Supply Chains
  - 4.3 Analyzing Benefits of Circular Models in Fashion
  - 4.4 Exploring Materials and Design for Circularity
  - 4.5 Implementing Recycling and Reuse Strategies
  - 4.6 Evaluating Success of Closed-Loop Initiatives
- **5 Leadership and Change Management in Fashion Supply Chain Innovation** — 6 classes
  - 5.1 Understanding the Role of Leadership in Fashion Supply Chain Innovation
  - 5.2 Analyzing Change Management Theories in the Context of Fashion Supply Chains
  - 5.3 Exploring Case Studies of Innovative Leadership in Fashion
  - 5.4 Identifying Challenges in Leading Change within Fashion Supply Chains
  - 5.5 Developing Strategies for Effective Leadership in Fashion Supply Chain Innovation
  - 5.6 Implementing Change: Action Plans for Sustainable Innovations in Fashion Supply Chains

4

Production Planning, Costing and Operational Excellence

12 chapters · 120 classes **100 marks**

- **1 Overview of Apparel Production Planning** — 10 classes
  - 1.1 Role of Production Planning in Apparel
  - 1.2 Order Receipt and Style Review
  - 1.3 Understanding Lead Time and Critical Path
  - 1.4 Capacity of Cutting, Sewing and Finishing
  - 1.5 Production Planning Documents
  - 1.6 Pre Production Meeting Procedure
  - 1.7 Conducting Pre Production Trials
  - 1.8 Linking Planning to Buyers Deadlines
  - 1.9 Production Planning Terminology Explained
  - 1.10 Reading a Production Order Sheet
- **2 Materials Planning and Procurement** — 10 classes
  - 2.1 Bill of Materials Review
  - 2.2 Calculating Fabric Requirement
  - 2.3 Calculating Trims and Accessories
  - 2.4 Wastage and Allowance Percentages
  - 2.5 Supplier Selection Criteria
  - 2.6 Purchase Order Preparation
  - 2.7 Tracking Material Delivery
  - 2.8 Receiving and Inspecting Materials
  - 2.9 Storage and Issue of Materials
  - 2.10 Material Shortage Escalation
- **3 Time and Motion Study in Garment Making** — 10 classes
  - 3.1 Purpose of Work Study
  - 3.2 Breaking a Garment into Operations
  - 3.3 Using a Stopwatch Correctly
  - 3.4 Standard Allowed Minutes
  - 3.5 Allowances for Fatigue and Delay
  - 3.6 Preparing Operation Bulletins for Styles
  - 3.7 Operator Skill Grading
  - 3.8 Method Improvement Ideas
  - 3.9 Calculating Target per Hour
  - 3.10 Recording and Reviewing Time Studies
- **4 Line Balancing and Layout Planning** — 10 classes
  - 4.1 Types of Production Systems
  - 4.2 Progressive Bundle System
  - 4.3 Modular and Cell Production
  - 4.4 Operation Sequence Planning
  - 4.5 Balancing Workload Across Operators
  - 4.6 Calculating Required Operators
  - 4.7 Machine Allocation per Operation
  - 4.8 Line Layout Drawing
  - 4.9 Identifying and Fixing Bottlenecks
  - 4.10 Line Set Up Practice Exercise
- **5 Scheduling and Capacity Management** — 10 classes
  - 5.1 Order Sequencing Principles
  - 5.2 Gantt Charts for Production
  - 5.3 Daily Production Targets
  - 5.4 Capacity Versus Demand Calculation
  - 5.5 Handling Overtime and Shifts
  - 5.6 Managing Sampling and Bulk Overlap
  - 5.7 Planning for Seasonal Peaks
  - 5.8 Handling Delay and Rescheduling
  - 5.9 Contributing to Outsourced Production
  - 5.10 Weekly Schedule Review
- **6 Garment Costing and Cost Sheets** — 10 classes
  - 6.1 Components of Garment Cost
  - 6.2 Material Costing for Garments
  - 6.3 Cut Make and Trim Costing
  - 6.4 Overheads and Margins
  - 6.5 Preparing a Cost Sheet
  - 6.6 Costing Different Garment Types
  - 6.7 Fabric Consumption Impact on Cost
  - 6.8 Costing Embellishment and Washing
  - 6.9 Export Costing and Currency
  - 6.10 Cost Comparison and Negotiation
- **7 Budgeting and Financial Control in Production** — 10 classes
  - 7.1 Production Budget Basics
  - 7.2 Fixed and Variable Costs
  - 7.3 Break Even Calculation
  - 7.4 Tracking Actual Versus Budget
  - 7.5 Cost of Rework and Rejection
  - 7.6 Wastage Cost Analysis
  - 7.7 Efficiency and Profit Relationship
  - 7.8 Payroll and Piece Rate Costing
  - 7.9 Financial Reports for Supervisors
  - 7.10 Cost Reduction Action Plan
- **8 Productivity and Efficiency Measurement** — 10 classes
  - 8.1 Efficiency Calculation Formula
  - 8.2 Daily Efficiency Reports
  - 8.3 Output Per Operator Tracking
  - 8.4 Downtime Recording on the Line
  - 8.5 Defect Rate Impact on Output
  - 8.6 Absenteeism and Attrition Effects
  - 8.7 Visual Production Boards
  - 8.8 Incentive and Reward Schemes
  - 8.9 Using Data for Decisions
  - 8.10 Efficiency Improvement Project
- **9 Lean Manufacturing in Garment Units** — 10 classes
  - 9.1 Principles of Lean Thinking
  - 9.2 Seven Types of Waste
  - 9.3 Five S Workplace Organisation
  - 9.4 Kaizen Small Improvements
  - 9.5 Standard Work Procedures
  - 9.6 Just in Time Material Flow
  - 9.7 Reducing Work in Progress
  - 9.8 Visual Management Tools
  - 9.9 Root Cause Problem Solving
  - 9.10 Lean Improvement Case Exercise
- **10 Quality Systems and Compliance in Production Planning** — 10 classes
  - 10.1 Linking Quality to Planning
  - 10.2 In Line Inspection Planning
  - 10.3 Final Inspection Planning
  - 10.4 Acceptable Quality Level Sampling
  - 10.5 Corrective and Preventive Action
  - 10.6 Quality Management System Requirements
  - 10.7 Environmental Management System Requirements
  - 10.8 Social Compliance Requirements
  - 10.9 Audit Preparation and Records
  - 10.10 Closing Audit Findings
- **11 Technology and Digital Tools in Production Management** — 10 classes
  - 11.1 Spreadsheets for Production Tracking
  - 11.2 Production Management Software Overview
  - 11.3 Product Data and Lifecycle Systems
  - 11.4 Barcode and Bundle Tracking
  - 11.5 Digital Cutting Plans and Lay Planning
  - 11.6 Real Time Output Monitoring
  - 11.7 Reporting Dashboards for Production Data
  - 11.8 Data Accuracy and Entry Discipline
  - 11.9 Information Security at Work
  - 11.10 Digital Production Tracking Exercise
- **12 Operational Excellence and Production Supervision** — 10 classes
  - 12.1 Role of the Production Supervisor
  - 12.2 Briefing and Motivating Operators
  - 12.3 Training Operators on the Line
  - 12.4 Handling Conflict on the Shop Floor
  - 12.5 Safe and Healthy Working Environment
  - 12.6 Minimising Production Waste and Carbon Footprint
  - 12.7 Continuous Improvement Culture
  - 12.8 Performance Review of a Line
  - 12.9 Reporting to Management
  - 12.10 Complete Production Plan Presentation

LAPT — 85 Great Portland Street, W1W 7LT, London, United Kingdom
info@lapt.org • +44 7513 283044 • lapt.org

UKPRN 10067351 • Company 4984798
Curriculum current at the date of issue.