

# **CSCP On-Demand Training** for Self-Study Professionals

Are you preparing for the CSCP certification through self-study? As an experienced supply chain professional, you already have strong practical knowledge—but some topics may still need expert clarification. Fhyzics Business Consultants bridges that gap with on-demand, topic-oriented CSCP training sessions designed specifically for self-learners.

Whether you need guidance on a single concept or an entire module, our focused training helps you master complex areas quickly and confidently. Get personalized support, strengthen your exam readiness, and elevate your supply chain expertise—on your schedule.

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#### Waste

#### 1. Definition of Waste in Supply Chain

In supply chain management, waste refers to any activity, process, or material that does not add value from the customer's perspective. It consumes resources—time, money, energy, or materials—without contributing to output. Identifying and eliminating waste is central to Lean and continuous improvement initiatives. Reducing waste enhances operational efficiency, lowers costs, and supports sustainability goals.

#### 2. The Seven Wastes (Muda)

Originally from the Toyota Production System, the seven wastes—overproduction, waiting, transportation, overprocessing, inventory, motion, and defects—represent major inefficiencies. Recognizing and addressing these categories helps companies streamline processes, minimize excess inventory, and improve customer responsiveness while boosting profitability and quality performance across supply chain operations.

#### 3. Overproduction Waste

Overproduction occurs when more products are made than demanded. It ties up resources, increases storage costs, and leads to obsolescence or waste. In supply chains, aligning production with real demand through **Just-in-Time (JIT)** and demand forecasting prevents overproduction and ensures optimal resource utilization.

#### 4. Waiting Waste

Waiting refers to idle time caused by delays in materials, information, or processes. Bottlenecks, poor scheduling, or equipment downtime can lead to waiting. Minimizing waiting waste requires synchronized operations, effective scheduling, and continuous flow systems to enhance productivity and throughput across the supply chain.

#### 5. Transportation Waste

Transportation waste arises from unnecessary movement of materials, products, or information between locations. It increases handling costs, lead times, and damage risk. Optimizing transportation routes, consolidating shipments, and using digital tracking systems reduce transportation inefficiencies and environmental impact.

#### 6. Overprocessing Waste

Overprocessing happens when processes or features exceed customer requirements. Examples include excessive inspections or unnecessary packaging. This waste increases cost without adding value. Standardization, process simplification, and customer-focused design help minimize overprocessing and improve value delivery efficiency.

#### 7. Inventory Waste

Excess inventory consumes storage space, ties up working capital, and risks obsolescence. This often results from inaccurate forecasts or inefficient production planning. Techniques like Just-in-Time (JIT), Kanban, and ABC inventory analysis help align inventory levels with demand, reducing waste and improving cash flow.

#### 8. Motion Waste

Motion waste involves unnecessary movement of people or equipment during operations. Poor workstation layouts or inefficient workflows can lead to fatigue and errors.

Ergonomic design and process mapping help minimize motion waste, improving productivity and workplace safety.

#### 9. Defects Waste

Defects represent errors or quality failures that require rework or result in scrap. They directly increase costs and delay deliveries. Implementing quality management systems (QMS), root cause analysis, and Total Quality Management (TQM) principles helps prevent defects and improve customer satisfaction.

#### 10. Underutilized Talent

An eighth waste often added to Lean principles, underutilized talent refers to not leveraging employees' skills, creativity, or problem-solving abilities. Encouraging employee engagement, cross-training, and continuous improvement participation maximizes workforce potential and drives innovation in waste reduction.

#### 11. Lean Thinking and Waste Elimination

Lean thinking focuses on maximizing customer value while minimizing waste. Its principles—value identification, value stream mapping, flow creation, pull production, and continuous improvement—guide waste elimination efforts. Applying Lean across supply chains ensures end-to-end efficiency and value delivery.

#### 12. Value Stream Mapping (VSM)

VSM is a visual tool that maps material and information flow through processes to identify waste and improvement opportunities. It distinguishes between value-added and non-value-added activities, helping teams redesign workflows and eliminate inefficiencies in both production and administrative processes.

#### 13. Kaizen (Continuous Improvement)

Kaizen promotes continuous, incremental improvements through employee involvement. It encourages problemsolving and waste reduction at all levels of the organization. Regular Kaizen events focus on specific areas—like reducing setup time or transportation—to drive operational excellence and build a culture of improvement.

#### 14. 5S Methodology

The **5S system**—Sort, Set in Order, Shine, Standardize, and Sustain—organizes workplaces for efficiency and safety. It eliminates motion and waiting waste while improving workflow visibility and productivity. 5S lays the foundation for Lean and waste reduction initiatives in manufacturing and logistics environments.

#### 15. Root Cause Analysis (RCA)

RCA identifies the fundamental cause of recurring waste or quality issues. Tools like the **5 Whys** or **Fishbone Diagram** (**Ishikawa**) help teams trace waste to its source, ensuring permanent corrective actions instead of temporary fixes. It's essential for long-term waste prevention.

#### 16. Waste in Transportation and Logistics

In logistics, waste can occur through inefficient routing, underutilized loads, excess fuel use, and idle vehicles. Implementing route optimization, load consolidation, and transport management systems (TMS) minimizes logistical waste, reducing costs and environmental impact while improving delivery reliability.

#### 17. Waste in Warehousing

Common warehouse wastes include overstocking, excess handling, and poor space utilization. Adopting warehouse management systems (WMS), slotting optimization, and cross-docking reduces these inefficiencies. Lean warehousing focuses on speed, accuracy, and efficient space use to improve fulfillment performance.

#### 18. Environmental and Sustainability Waste

Beyond operational inefficiencies, waste also includes pollution, emissions, and excessive resource consumption. Sustainable practices—such as energy efficiency, material recycling, and green packaging—reduce environmental waste and align supply chains with corporate sustainability goals and regulatory compliance.

#### 19. Measurement of Waste and Performance

Measuring waste involves tracking key performance indicators (KPIs) such as **scrap rate**, **yield**, **inventory turnover**, and **process efficiency**. Data-driven analysis provides insights into waste levels and improvement opportunities. Continuous monitoring enables organizations to sustain gains achieved through Lean initiatives.

#### 20. Waste and the Circular Economy

The circular economy promotes minimizing waste through reuse, recycling, and remanufacturing. It transforms supply chains from linear (make—use—dispose) to circular (make—use—return—reuse). Embracing circular practices not only reduces waste but also generates new business value and supports long-term environmental sustainability.

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## Micro-Learning Programs in Supply Chain Management & Procurement



Enhance your professional edge with Fhyzics Business Consultants' Micro-Learning Programs in Supply Chain Management and Procurement. Designed as focused, two-hour Executive Development Programs, these sessions deliver practical insights and tools to solve real-world business challenges. Conducted in small batches for personalized learning, participants gain a deeper understanding of key supply chain and procurement strategies that drive efficiency and profitability. Each participant receives a certificate of completion, adding value to their professional profile and career growth. Whether you aim to advance in your current role or explore new opportunities, this program equips you with the knowledge and confidence to excel.



### Micro-Learning Programs in Supply Chain Management



- 1. Fundamentals of Supply Chain Management
- 2. Supply Chain Planning and Optimization
- 3. Demand Forecasting Techniques
- 4. Inventory Control and Management
- 5. Distribution and Logistics Strategy
- 6. Warehouse Layout and Operations Efficiency
- 7. Supply Chain Risk Management
- 8. Supply Chain Performance Metrics (KPIs)
- 9. Lean Supply Chain Practices
- 10. Agile and Responsive Supply Chains
- 11. Sales and Operations Planning (S&OP)
- 12. Supply Chain Network Design
- 13. Supply Chain Digital Transformation
- 14. AI and Data Analytics in Supply Chain
- 15. Supply Chain Sustainability and Green Logistics
- 16. Reverse Logistics and Returns Management
- 17. Supply Chain Collaboration and Integration
- 18. Supplier Relationship Management in SCM
- 19. Global Supply Chain Strategy
- 20. Transportation Management Systems (TMS)
- 21. Inventory Optimization Models
- 22. Demand-Driven MRP (DDMRP) Concepts
- 23. Blockchain Applications in Supply Chain
- 24. Supply Chain Cost Reduction Techniques
- 25. SCOR Model and Process Improvement

# Micro-Learning Programs in Supply Chain Management ...



- 26. Capacity Planning and Resource Allocation
- 27. Managing Supply Chain Disruptions
- 28. End-to-End Supply Chain Visibility
- 29. Cold Chain Logistics Management
- 30. Supply Chain Compliance and Ethics
- 31. Import-Export Procedures and Documentation
- 32. Managing Third-Party Logistics (3PL) Providers
- 33. Supply Chain Collaboration Technologies
- 34. Production Planning and Scheduling
- 35. Strategic Supply Chain Design Using Case Studies
- 36. Circular Economy in Supply Chain
- 37. Vendor-Managed Inventory (VMI)
- 38. Transportation Optimization Techniques
- 39. E-Commerce Supply Chain Models
- 40. Omni-Channel Fulfillment Strategies
- 41. Warehouse Automation and Robotics
- 42. SCOR DS Roadmap for Supply Chain Excellence
- 43. Customer-Centric Supply Chain Strategies
- 44. Supply Chain Finance and Working Capital Management
- 45. Supply Chain Data Visualization Using Power BI
- 46. Strategic Sourcing in Supply Chain Context
- 47. Supply Chain Benchmarking and Best Practices
- 48. Integrated Business Planning (IBP)
- 49. Supply Chain in Crisis Management and Recovery
- 50. Future Trends and Technologies in Supply Chain

## Micro-Learning Programs in Procurement



- 1. Fundamentals of Procurement Management
- 2. Strategic Sourcing and Category Management
- 3. Supplier Selection and Evaluation
- 4. Contract Management Essentials
- 5. Cost and Price Analysis in Procurement
- 6. Negotiation Strategies for Procurement Professionals
- 7. E-Procurement and Digital Tools
- 8. Procurement Planning and Budgeting
- 9. Risk Management in Procurement
- 10. Supplier Relationship and Performance Management
- 11. Sustainable and Ethical Procurement
- 12. Total Cost of Ownership (TCO) Analysis
- 13. Make-or-Buy Decision Frameworks
- 14. Procurement Policies and Governance
- 15. Procurement in Public vs. Private Sectors
- 16. Procurement Audit and Compliance
- 17. Procurement Data Analytics and Reporting
- 18. Procurement Scorecards and KPIs
- 19. Strategic Supplier Partnerships
- 20. Category Strategy Development
- 21. Managing Global and Offshore Procurement
- 22. Negotiation Simulation Workshop
- 23. Contract Law for Procurement Managers
- 24. Cost Reduction Strategies in Procurement
- 25. Supplier Risk Assessment Models

## Micro-Learning Programs in Procurement ...



- 26. Procurement Process Mapping and Improvement
- 27. Procurement Automation and AI Applications
- 28. Managing Procurement Teams Effectively
- 29. Procurement Ethics and Transparency
- 30. Procurement in the Digital Supply Chain
- 31. Vendor Consolidation Strategies
- 32. Spend Analysis and Optimization
- 33. Demand Forecasting for Procurement
- 34. E-Auction and Reverse Bidding Techniques
- 35. Inventory and Procurement Alignment
- 36. Procurement in Project-Based Organizations
- 37. Supplier Onboarding and Development
- 38. Procurement Market Intelligence
- 39. Measuring Supplier Innovation
- 40. Procurement in Times of Supply Disruption
- 41. Cross-Functional Collaboration in Procurement
- 42. Writing Effective RFPs, RFQs, and RFIs
- 43. Contract Negotiation Best Practices
- 44. Green Procurement and Circular Economy
- 45. Legal Aspects of Procurement Contracts
- 46. Performance-Based Contracting
- 47. Procurement Leadership and Strategic Influence
- 48. Cost Avoidance and Value Creation in Procurement
- 49. Managing Procurement with Power BI Dashboards
- 50. Future Skills and Trends in Procurement



### **Fhyzics Business Consultants Pvt. Ltd.**

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