

CPIM On-Demand Training for Self-Study Professionals

Are you preparing for the CPIM 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 CPIM 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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Inventory Storage, Flow, and Handling

1. Principles of Inventory Storage

Effective inventory storage ensures materials are kept in locations that maximize space utilization, safety, and accessibility. CPIM emphasizes understanding how storage layout, product characteristics, and demand patterns influence storage decisions. Proper storage minimizes handling costs, reduces search time, and supports accuracy in picking and replenishment. The principles also involve zoning, consolidation, and ensuring compliance with safety and regulatory requirements. Good storage design improves operational efficiency and supports lean and continuous improvement initiatives.

2. Warehouse Layout Design

Warehouse layout determines how inventory flows from receiving to storage, picking, and shipping. CPIM stresses mastering slotting, aisle width optimization, staging areas, and equipment pathways. A well-designed layout reduces travel time, improves throughput, and enhances worker safety. Layout decisions must support the organization's product mix, demand patterns, and handling equipment. Flexibility to scale and adapt to changing inventory needs is also essential.

3. Material Flow Concepts

Material flow describes how goods move through the facility—both physically and through the information system. CPIM highlights continuous flow, minimal touches, and elimination of non-value-added movements. Smooth material flow reduces delays, bottlenecks, and handling

costs. Understanding flow methods like cross-docking, forward picking zones, and replenishment strategies is crucial for efficient operations.

4. Types of Storage Systems

Storage systems—such as pallet racks, shelving, bins, flow racks, and automated systems—support specific product characteristics and throughput needs. CPIM requires understanding each system's strengths, cost implications, and suitability based on product weight, size, velocity, and fragility. Selecting the right storage system improves space efficiency, accessibility, and labor productivity.

5. FIFO, LIFO, and FEFO Strategies

FIFO (First-In, First-Out), LIFO (Last-In, First-Out), and FEFO (First-Expired, First-Out) guide how inventory is rotated. CPIM emphasizes choosing the appropriate strategy based on product attributes like shelf life, obsolescence risk, or cost valuation preferences. FIFO is typical in most operations, LIFO might be used for specific accounting purposes, and FEFO is critical for food, pharmaceuticals, and perishable items.

6. Slotting Optimization

Slotting determines where each SKU is placed in the warehouse. CPIM requires understanding how to assign locations based on velocity, size, weight, and handling frequency. Well-designed slotting reduces picking time, improves ergonomics, lowers labor cost, and increases overall efficiency. Dynamic slotting adjusts assignments based on seasonal or demand changes.

7. Inventory Handling Equipment

Handling equipment includes forklifts, pallet jacks, conveyors, cranes, AS/RS systems, and picking carts. CPIM stresses understanding capability, cost, safety requirements, and limitations of each equipment type. Correct equipment selection enhances flow, reduces labor effort, and prevents product damage. Equipment decisions must align with storage system choices and layout design.

8. Receiving and Put-Away Processes

Receiving is the first step in warehouse operations and impacts overall flow. CPIM requires mastery of receiving best practices: verification, inspection, labeling, and system updates. Put-away processes ensure inventory is stored quickly and accurately. Efficient receiving and put-away reduce congestion, errors, and delays and strengthen inventory control.

9. Picking Methods

Picking methods—such as single-order picking, batch picking, zone picking, and wave picking—affect labor productivity and order accuracy. CPIM emphasizes selecting methods based on SKU volume, order profiles, and equipment infrastructure. Efficient picking reduces customer lead times, minimizes travel distance, and improves accuracy.

10. Packaging and Unitization

Unitization involves combining items into a single handling unit, such as pallets, cartons, or totes. CPIM highlights how standardization of packaging simplifies handling, protects products, and enhances stacking efficiency. Proper

packaging ensures damage prevention, smooth flowthrough conveyors, and alignment with transportation requirements.

11. Cross-Docking

Cross-docking allows incoming goods to be transferred directly to outbound shipping, bypassing storage. CPIM emphasizes its benefits: reduced inventory, faster response times, and improved flow. It is ideal for fast-moving goods and synchronized supply chains. Successful cross-docking requires precise coordination and accurate information systems.

12. Inventory Accuracy and Control

Accurate inventory records support efficient flow, picking, and replenishment. CPIM stresses methods such as cycle counting, location audits, barcoding, RFID, and disciplined transaction processing. Accurate data prevents stockouts, overstocks, and mispicks and improves planning reliability.

13. Space Utilization and Cube Optimization

Efficient use of warehouse space reduces storage cost and improves accessibility. CPIM trains you to analyze vertical and horizontal space, product stacking rules, and aisle-to-storage ratios. Cube optimization ensures maximum storage density without sacrificing safety or efficiency. Good utilization lowers facility expansion needs and operating cost.

14. Safety and Regulatory Compliance

Safety is essential in storage and material handling environments. CPIM emphasizes understanding OSHA

guidelines, equipment operation rules, hazardous material storage standards, and ergonomic practices. Safe handling prevents accidents, inventory damage, and regulatory risks. A culture of safety protects productivity and workforce morale.

15. Environmental Conditions and Inventory Preservation

Certain products require controlled environments temperature, humidity, ventilation, or protection from contaminants. CPIM stresses understanding productspecific requirements to prevent spoilage, corrosion, or degradation. Proper environmental control ensures quality, reduces waste, and meets regulatory or customer specifications.

16. Lean Warehousing Concepts

Lean warehousing aims to eliminate waste in storage and handling operations. CPIM highlights techniques like 5S, visual management, standard work, and waste reduction. Lean improves space utilization, reduces travel distance, minimizes defects and delays, and enhances overall flow. It supports continuous improvement and operational excellence.

17. Automated Storage and Retrieval Systems (AS/RS)

AS/RS involves robotics and automated systems that store and retrieve goods with minimal human involvement. CPIM emphasizes benefits such as accuracy, high-density storage, reduced labor needs, and improved safety. Automation supports high-throughput environments and improves inventory traceability.

18. Yard and Dock Management

The flow begins and ends at docks. CPIM stresses understanding dock scheduling, staging areas, trailer positioning, and yard operations. Efficient dock management reduces bottlenecks during receiving and shipping and enables smoother material flow throughout the warehouse.

- 19. Replenishment Strategies within the Warehouse Internal replenishment ensures forward pick locations are kept at optimal stock levels. CPIM covers methods such as min-max, demand-based replenishment, and scheduled replenishment. Effective internal flow prevents picking delays, congestion, and stockouts in the picking area.
- 20. Handling Fragile, Hazardous, and High-Value Items
 Special categories require unique handling procedures.
 CPIM stresses understanding labeling, segregation,
 protective packaging, and storage rules for hazardous
 materials, fragile goods, or high-security items. Specialized
 handling reduces risk, prevents damage, ensures
 compliance, and protects workforce safety.

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.



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- 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



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