

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.

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Warehousing

1. Role of Warehousing in the Supply Chain

Warehousing supports the smooth flow of goods from suppliers to customers by providing space for storage, consolidation, and order fulfillment. It reduces transportation inefficiencies and ensures product availability by balancing supply and demand fluctuations. In CPIM, it is important to understand how warehouses enable postponement, value-added services, risk pooling, and service-level improvement. Warehousing also affects cost structures—inventory carrying, handling, labor, and facility operations—making strategic warehouse deployment crucial to total supply chain efficiency.

2. Types of Warehouses

Warehouses exist in several forms: private, public, contract, distribution centers, fulfillment centers, cross-dock facilities, and bonded warehouses. Each offers distinct cost, control, and flexibility characteristics. For CPIM, candidates must understand why organizations select specific warehouse types depending on volume, service requirements, capital availability, and product characteristics. Knowing the difference between storage-focused facilities and high-velocity distribution centers helps align warehouse structure with corporate logistics strategy.

3. Warehouse Layout and Design Principles

Warehouse layout influences labor efficiency, space utilization, material flow, picking speed, and safety. Good design incorporates optimal aisle widths, storage zoning, equipment accommodation, and logical flow from receiving

to shipping. CPIM emphasizes lean design principles, minimizing travel distances, eliminating bottlenecks, and maximizing cube utilization. Concepts such as slotting, ABC zoning, and ergonomic design contribute to improved productivity. Understanding design trade-offs is essential for efficient operations.

4. Material Handling Equipment (MHE)

MHE includes forklifts, conveyors, pallet jacks, automated guided vehicles (AGVs), cranes, and sortation systems. Proper selection of equipment is based on load characteristics, throughput requirements, safety, cost, and automation needs. Understanding how MHE integrates with warehouse processes can significantly reduce handling times and labor costs. CPIM candidates must understand the operational considerations, maintenance requirements, and safety implications of using different types of MHE.

5. Storage Systems and Technologies

Storage systems include pallet racking, shelving, drive-in racks, flow racks, mezzanines, and automated storage/retrieval systems (AS/RS). The chosen system determines accessibility, storage density, and speed of retrieval. Decisions depend on SKU characteristics, turnover rates, and operational strategy (FIFO, LIFO). Modern technologies like shuttle systems, vertical lift modules, and high-bay AS/RS enhance space utilization and accuracy. Understanding storage-system trade-offs is essential for optimizing cost and performance.

6. Receiving Operations and Best Practices

Receiving ensures accurate verification of incoming goods,

correct documentation, proper inspection, and timely allocation to storage or processing. CPIM requires understanding the importance of dock scheduling, ASN (Advance Ship Notice) usage, barcode scanning, and quality checks. Efficient receiving reduces bottlenecks, prevents errors from entering the system, and accelerates put-away. Best practices include standardized procedures, real-time data capture, and clear coordination with procurement and carriers.

7. Put-Away Processes and Optimization

Put-away involves transporting received goods to appropriate storage locations, ensuring accuracy, safety, and efficiency. Effective put-away minimizes travel time, reduces congestion, and supports inventory accuracy. CPIM emphasizes slotting strategies, directed put-away via WMS, and dynamic space allocation. Proper put-away practices reduce misplacements and support faster picking later. Technologies such as RFID, mobile scanners, and location-based guidance improve productivity and precision.

8. Order Picking Strategies

Picking is labor-intensive and often the costliest warehouse activity. CPIM covers picking methods like discrete picking, batch picking, zone picking, wave picking, and pick-to-light systems. Strategies depend on order profiles, SKU velocity, and warehouse layout. The goal is to reduce travel time, enhance accuracy, and improve service levels. Understanding ergonomic principles, slotting optimization, and automation helps in designing efficient picking operations.

9. Packing, Staging, and Shipping Processes

Packing ensures items are correctly consolidated, protected, labeled, and compliant with customer or regulatory requirements. Staging involves organizing packed orders in shipping lanes based on carrier, route, or time. Shipping finalizes documentation, loads carriers, and updates systems. CPIM requires understanding the integration of shipping processes with transportation management, carrier scheduling, and service-level requirements. Effective execution minimizes errors, delays, and freight costs.

10. Warehouse Management Systems (WMS)

A WMS tracks inventory, directs workflows, improves accuracy, and enhances visibility. Key functionalities include receiving, put-away, picking, replenishment, cycle counting, labor tracking, and performance analytics. CPIM emphasizes how WMS enables real-time decision-making, integrates with ERP systems, and supports automation technologies. A strong understanding of WMS capabilities and limitations is essential for effective warehouse planning and optimization.

11. Inventory Control Techniques in Warehousing

Warehouses must maintain accurate inventory to support planning, order fulfillment, and financial reporting. Techniques include cycle counting, ABC analysis, reconciliation procedures, and variance analysis. CPIM stresses methods such as location-level accuracy, real-time updates, and process standardization. Understanding how inaccuracies arise—mis-picks, damage, improper labeling—helps implement corrective actions. Effective inventory control enhances service levels and reduces carrying costs.

12. Slotting Optimization and SKU Velocity Management Slotting determines where each SKU is placed to minimize travel time and improve picking efficiency. CPIM requires understanding the principles of SKU velocity, product affinity, FIFO requirements, ergonomic placement, and replenishment frequency. Slotting tools and WMS support dynamic slotting based on demand patterns. Good slotting reduces labor cost, improves accuracy, and adapts warehouse performance to changing customer needs.

13. Warehouse Capacity Planning and Utilization

Capacity planning ensures the warehouse can handle expected storage, throughput, and labor requirements. Key concepts include cube utilization, space forecasting, throughput capacity, and equipment allocation. CPIM focuses on understanding peak vs. average demand, storage-density calculations, and constraints in receiving/picking areas. Effective planning avoids congestion, delays, and excessive operating costs while ensuring service-level reliability.

14. Warehouse Labor Management and Productivity

Labor is a major cost component in warehousing. CPIM emphasizes workforce planning, productivity standards, performance measurement, and incentive systems. Techniques such as engineered labor standards, time studies, cross-training, and ergonomic design support improved productivity. Proper labor planning aligns staffing with workload patterns, reducing overtime and enhancing service levels. Understanding how human factors affect safety and performance is essential.

15. Lean Warehousing and Waste Reduction

Lean principles target the elimination of waste in processes, space, motion, and inventory. CPIM candidates must understand how to apply value stream mapping, 5S, standardized work, and continuous improvement (Kaizen) in warehousing. Lean warehousing improves service-level performance, reduces cost, and increases responsiveness. Emphasis is placed on reducing touchpoints, optimizing flow, and implementing visual management for process clarity.

16. Warehouse Safety and Compliance

Safety is critical due to equipment use, heavy materials, and high activity levels. CPIM highlights safety regulations, hazard identification, equipment certification, training, signage, and emergency procedures. Programs such as OSHA compliance, PPE requirements, and incident investigation help reduce injuries and legal risk. Safety-focused warehouse culture improves morale, productivity, and operational continuity.

17. Cross-Docking and Flow-Through Operations

Cross-docking bypasses storage by directing inbound goods directly to outbound shipments. It reduces handling, improves speed, and minimizes inventory holding. CPIM requires an understanding of pre-distribution, post-distribution, synchronized scheduling, and transportation coordination. Flow-through increases efficiency when SKU velocity is high or customer lead-time requirements are tight. Proper execution depends on accurate data, reliable suppliers, and fast processing.

18. Value-Added Services (VAS) in Warehousing

Warehouses often perform VAS such as kitting, labeling, customization, bundling, and light assembly. These services enhance customer satisfaction and improve supply chain responsiveness. CPIM highlights how VAS supports postponement strategies and reduces finished-goods variety upstream. Understanding the resource, space, and labor requirements for VAS helps in cost planning and operational design.

19. Performance Metrics and KPIs for Warehousing

KPIs help evaluate warehouse efficiency, accuracy, and service levels. CPIM emphasizes key metrics such as order accuracy, dock-to-stock time, pick rate, inventory accuracy, space utilization, labor productivity, and cost per order. Monitoring KPIs enables continuous improvement and highlights areas requiring corrective actions. Data-driven performance management enhances reliability and supports strategic decision-making.

20. Automation and Emerging Warehouse Technologies
Automation includes AS/RS, robotics, conveyors, AMRs,
pick-to-light, voice picking, drones for cycle counting, and
IoT sensors. CPIM requires understanding the benefits—
higher accuracy, faster throughput, lower labor
dependence—and the challenges such as capital cost,
integration complexity, and maintenance. Emerging
technologies like digital twins, AI-based slotting, and realtime visibility platforms are transforming warehouse
operations. Proficiency in these technologies supports

future-ready logistics planning.

Micro-Learning Programs in Supply Chain Management & Procurement



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- 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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