

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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Supply and Purchasing Planning

1. Supply Planning Fundamentals

Supply planning determines how an organization will meet demand through internal production, external procurement, inventory utilization, and resource allocation. It balances capacity, supplier capabilities, cost, and inventory targets. Planners must align supply plans with the master production schedule (MPS), demand plan, and organizational strategy. Understanding supply planning fundamentals is critical to ensuring material availability without excessive inventory or cost overruns. This concept forms the foundation upon which all purchasing and sourcing decisions are made.

2. Role of MRP in Supply and Purchasing

Material Requirements Planning (MRP) determines what to buy, in what quantity, and when, based on dependent demand and BOM structures. It generates planned orders, purchase requisitions, and rescheduling messages. For purchasing planning, MRP provides time-phased signals for procurements, ensuring components arrive just in time for production. Understanding MRP logic—explosion, netting, time-phasing, and lead-time offsetting—is essential to ensure supply continuity and accurate purchasing decisions.

3. Purchasing Process and Procurement Cycle

The procurement cycle includes requisitioning, supplier selection, purchase order placement, follow-up, receipt, inspection, and payment. Understanding each step ensures efficient purchasing and alignment with supply plans. Planners must coordinate purchasing timelines with

production needs, lead times, and supplier performance. Mastery of procurement steps helps prevent late deliveries, stockouts, and cost overruns while enabling better supplier collaboration.

4. Supplier Relationship Management (SRM)

SRM focuses on developing, maintaining, and improving relationships with suppliers. It includes evaluating supplier performance, ensuring compliance with quality standards, sharing forecasts, and fostering collaboration. Strong SRM improves responsiveness, reliability, innovation, and risk mitigation. In supply planning, SRM ensures that suppliers understand demand variability and can support flexible replenishment strategies. Effective SRM is essential for long-term procurement success.

5. Sourcing Strategies and Supplier Selection

Organizations choose suppliers based on cost, capability, quality, reliability, geography, and strategic fit. Sourcing strategies may include single sourcing, dual sourcing, multisourcing, global sourcing, and strategic partnerships. Selecting the right supplier affects lead time, cost, risk, and service levels. CPIM candidates must understand how sourcing strategies influence supply availability and how to evaluate trade-offs between price, responsiveness, and risk.

6. Lead Time and Its Components in Purchasing

Lead time includes order preparation, supplier processing, manufacturing, transportation, receiving, inspection, and administrative handling. Accurate lead-time data is essential for MRP output accuracy. Long or unreliable lead times may

require higher safety stock or alternative suppliers.
Understanding how each component contributes to overall lead time supports better planning, negotiation, and inventory management.

7. Lot Sizing in Purchasing

Purchasing lot sizes determine how much material is ordered at one time. Common lot-sizing methods include lot-for-lot (L4L), EOQ, MOQ, FOQ, and period order quantity (POQ). Lot-size decisions influence inventory holding cost, order cost, and supplier workloads. CPIM candidates must understand how lot sizing affects supply stability, cost performance, and inventory turns. Choosing the right method aligns purchasing with demand patterns and operational constraints.

8. Supplier Capacity and Capability Analysis

Assessing supplier capacity ensures that suppliers can meet volume and flexibility requirements. Capability analysis evaluates technical expertise, process control, workforce competence, and technology infrastructure. Supply planners must evaluate whether suppliers can support forecasted and unexpected spikes in demand. Understanding capacity constraints helps determine sourcing strategies, contract terms, and risk mitigation approaches.

9. Contracting and Supplier Agreements

Purchasing planning involves negotiating contracts that define pricing, delivery terms, service levels, quality requirements, lead times, and penalties. Contracts can be

short-term or long-term (blanket orders, frame agreements). Strong contracts ensure stability, reduce administrative workload, and protect supply continuity. CPIM candidates must understand legal, financial, and operational aspects of supplier agreements.

10. Purchasing Policy and Governance

An organization's purchasing policy defines authority levels, compliance rules, ethical standards, and approval processes. Adhering to governance ensures consistency, transparency, and legal compliance in procurement. Understanding policies helps planners execute procurement tasks correctly, enforce supplier accountability, and prevent fraud or maverick buying. Effective governance enhances organizational control and supply chain integrity.

11. Supplier Performance Measurement

Supplier performance is assessed using metrics such as ontime delivery, quality levels, responsiveness, cost competitiveness, and innovation capability. Supplier scorecards and audits help maintain supply reliability. For supply planning, accurate supplier performance data is essential for adjusting safety stock, revising lead times, and determining whether suppliers can be trusted with critical components.

12. Inventory Strategies in Supply Planning

Inventory strategies—cycle stock, safety stock, buffer stock, decoupling inventory, and strategic stock—balance supply uncertainty with service-level goals. Planners must determine where and how much inventory to hold to serve

production and customer needs. Inventory strategies help mitigate variability in demand, supplier performance, and transit reliability. Mastery of inventory planning supports robust, efficient supply chains.

13. Collaborative Planning with Suppliers

Collaborative planning includes sharing forecasts, consumption data, production schedules, and inventory positions with suppliers. Models such as VMI (Vendor-Managed Inventory), CPFR (Collaborative Planning, Forecasting, and Replenishment), and consignment inventory improve visibility and reduce bullwhip effects. Collaboration strengthens relationships and reduces lead time variability, enhancing supply reliability.

14. Make-or-Buy Analysis

Make-or-buy decisions consider factors such as cost, capacity, expertise, quality, risk, confidentiality, and strategic value. This analysis determines whether a company should produce a component internally or outsource it. CPIM candidates must understand how make-or-buy decisions affect supply planning, long-term sourcing strategy, capacity utilization, and total cost of ownership.

15. Risk Management in Purchasing

Risk management includes identifying, assessing, and mitigating risks related to suppliers, logistics networks, geopolitical factors, and quality issues. Techniques include multisourcing, safety stock, dual suppliers, geographic diversification, and supplier audits. Effective risk management prevents supply disruptions and protects

operational continuity, making it essential to purchasing planning.

16. Replenishment Strategies for Purchased Items

Replenishment strategies include reorder point (ROP), timephased MRP ordering, Kanban replenishment, VMI, and periodic review systems. Choosing the right replenishment strategy depends on demand patterns, lead times, cost structure, and product criticality. CPIM candidates must understand how replenishment decisions influence inventory levels and supplier responsiveness.

17. Supplier Scheduling and Release Management

Scheduling suppliers involves issuing purchase orders, releases, and delivery schedules. The planner must manage order releases based on MRP signals and supplier agreements. Techniques like blanket orders, schedule releases, and EDI-based schedules simplify purchasing administration and support stable supplier operations. Proper release management ensures timely deliveries and smooth production flow.

18. Transportation and Logistics in Procurement

Transportation decisions influence delivery reliability, cost, and lead time. Supply planners must understand shipment modes, freight terms (Incoterms), carrier selection, consolidation opportunities, and tracking. Logistics affects total landed cost and supplier performance. Integrating logistics planning with purchasing ensures materials arrive when needed at optimal cost.

- 19. Cost Management and Total Cost of Ownership (TCO) TCO looks beyond purchase price to include freight, duties, holding cost, quality cost, administrative cost, risk, and lifecycle cost. Decisions based solely on lowest price may increase total supply chain cost. CPIM candidates must understand how to evaluate and optimize the full cost structure of purchasing decisions and supplier relationships.
- 20. Continuous Improvement in Supply and Purchasing Continuous improvement applies methodologies such as lean procurement, Kaizen, value analysis/value engineering (VA/VE), and supplier development. Improving processes reduces waste, shortens lead times, and enhances supplier capabilities. Planners play a key role in identifying improvement opportunities, aligning procurement with organizational strategy, and fostering innovation within the supply base.

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



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