

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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Quality Planning and Assurance/Control

1. Principles of Quality Management

Quality management focuses on meeting customer requirements consistently through structured planning, control, and continuous improvement. Key principles include customer focus, leadership, engagement of people, process approach, evidence-based decision making, and relationship management. CPIM professionals must understand how these principles shape operational excellence, reduce waste, and improve reliability. Quality management affects forecasting accuracy, production planning, supplier relationships, and inventory performance.

2. Quality Planning

Quality planning determines the standards, specifications, inspection points, and procedures needed to ensure product conformance. It includes establishing quality objectives, defining measurement metrics, identifying key process controls, and integrating quality into product design and workflow. CPIM candidates must understand how quality planning aligns with capacity planning, BOM accuracy, routing design, and supplier qualification processes to prevent defects rather than detect them.

3. Quality Assurance (QA)

Quality assurance focuses on process-oriented activities that ensure quality is built into each step of production or service delivery. It includes audits, documented procedures, training, and adherence to standard operating practices. CPIM professionals must understand how QA influences

manufacturing stability, reduces variability, and ensures compliance. QA helps prevent quality failures by designing robust processes that consistently produce desired outcomes.

4. Quality Control (QC)

Quality control is the operational inspection and testing of products to verify conformity to requirements. QC activities include sampling, measurement, testing, control charts, and defect documentation. CPIM professionals must understand how QC integrates with production operations, process flow, and corrective actions. QC ensures that nonconforming products are detected early, reducing scrap, rework, and customer complaints.

5. Total Quality Management (TQM)

TQM is a cultural and organizational approach that drives continuous improvement across all functions. It emphasizes customer focus, process improvement, employee participation, and long-term thinking. CPIM learners should understand how TQM influences strategic planning, standardization, and cross-functional collaboration. TQM empowers employees at all levels to identify issues and improve quality naturally within their daily work.

6. Six Sigma Methodology

Six Sigma is a data-driven approach used to reduce variation and defects. It uses DMAIC (Define, Measure, Analyze, Improve, Control) for existing processes and DMADV for new designs. CPIM candidates must understand how Six Sigma tools—such as process mapping, regression analysis, hypothesis testing, and capability studies—support

operational excellence. Six Sigma improves throughput, reduces errors, and enhances reliability.

7. Statistical Process Control (SPC)

SPC uses control charts to monitor process behavior and detect abnormal variation. It helps distinguish between common-cause and special-cause variation. CPIM professionals must understand different chart types (X-bar, R-chart, p-chart, c-chart) and how to interpret control limits. SPC provides early warning signals, enabling corrective action before defects occur.

8. Process Capability Analysis

Process capability (Cp, Cpk, Pp, Ppk) measures how well a process produces output within specification limits. Capability indices help planners determine if processes are stable, predictable, and capable of meeting customer requirements. Understanding capability informs decisions about equipment upgrades, operator training, and process standardization. CPIM candidates use capability analysis to ensure production lines support quality and planning objectives.

9. Failure Modes and Effects Analysis (FMEA)

FMEA is a systematic tool used to identify potential failure modes, their causes, and their impacts. It quantifies risk using severity, occurrence, and detection ratings to calculate a Risk Priority Number (RPN). CPIM professionals use FMEA during product design, process planning, and continuous improvement initiatives to proactively eliminate risk and improve reliability.

10. Root Cause Analysis and Corrective Actions

Root cause analysis identifies underlying causes of problems using tools such as 5 Whys, fishbone diagrams, Pareto charts, and fault-tree analysis. Corrective actions permanently address root causes, while preventive actions stop issues before they occur. CPIM candidates must understand how RCA supports quality improvement and protects production stability.

11. Supplier Quality Management

Supplier quality affects incoming materials, production stability, and final product quality. Supplier quality management includes qualification, audits, incoming inspection, scorecards, corrective actions, and collaborative improvement. CPIM professionals must understand how supplier performance influences inventory accuracy, lead times, and planning reliability. Strong supplier relationships enhance overall supply chain quality.

12. Incoming, In-Process, and Final Inspection

Quality inspection occurs at three major points: receiving, during production, and before shipping. CPIM learners must understand inspection sampling plans (AQL), material certification, test protocols, and disposition of nonconforming goods. Effective inspection prevents defective materials from entering production, reduces rework, and improves customer satisfaction.

13. Cost of Quality (COQ)

COQ categorizes costs into prevention, appraisal, internal failure, and external failure. CPIM candidates must understand how investments in prevention and appraisal

reduce costly failures such as scrap, rework, returns, warranty claims, and customer dissatisfaction. COQ is essential for budgeting, performance measurement, and strategic decision-making.

14. ISO 9001 and Quality Management Standards

ISO 9001 provides internationally recognized requirements for quality management systems (QMS). CPIM learners must understand how standardization supports documentation, consistency, process control, and customer assurance. Certification improves reliability, reduces risk, and enhances supplier credibility across global supply chains.

15. Continuous Improvement (CI) and Kaizen

Continuous improvement is the process of making incremental, ongoing enhancements to processes, quality, and productivity. Kaizen emphasizes small, regular improvements involving employees at all levels. CPIM professionals must understand how CI supports waste reduction, improved flow, and problem prevention. CI is a foundational component of Lean and TQM.

16. Quality Function Deployment (QFD)

QFD translates customer requirements into technical specifications using tools like the "House of Quality." CPIM candidates must understand how QFD aligns product design, materials, processes, and quality controls with customer expectations. It improves communication across engineering, production, and supply chain functions.

17. Nonconformance Management

Nonconforming materials and products must be identified, segregated, and dispositioned properly—either rework, repair, return to supplier, or scrap. CPIM professionals must understand NCR documentation, Material Review Board (MRB) processes, and corrective action workflows. Effective nonconformance management protects inventory integrity and production stability.

18. Documentation and Standard Operating Procedures (SOPs)

Quality assurance depends on clear, controlled documentation—SOPs, work instructions, checklists, inspection criteria, and training records. Proper documentation ensures process consistency, reduces operator error, and supports auditing. CPIM candidates must understand document control principles, version control, and training validation.

19. Measurement Systems Analysis (MSA)

MSA evaluates measurement instruments, methods, and operators to ensure accuracy and reliability. Common tools include Gage R&R studies, bias analysis, linearity, and stability assessments. Poor measurement systems can lead to false conclusions about process performance. CPIM professionals need MSA to ensure quality decisions are based on trustworthy data.

20. Risk-Based Thinking and Quality Decision Making Modern quality management emphasizes risk identification, mitigation, and monitoring. CPIM candidates must understand how risk-based thinking influences process

design, supplier management, contingency planning, and control strategy development. This approach reduces variability, prevents failures, and ensures robust planning.

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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