

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 Types and Classifications

1. Raw Materials Inventory

Raw materials are the basic inputs used in production processes. They can be purchased items such as metals, chemicals, lumber, fabrics, or components that have not yet undergone processing. Managing raw materials involves maintaining the right quantity to prevent stockouts while minimizing holding costs. CPIM requires understanding demand variability, lead times, and supplier reliability. Effective raw material planning reduces manufacturing delays, stabilizes production flow, and supports costefficient procurement strategies.

2. Work-in-Process (WIP) Inventory

Work-in-process includes items that are currently going through production but are not yet finished goods. High levels of WIP often indicate inefficiencies, bottlenecks, or poor production scheduling. CPIM stresses the importance of lean techniques, Little's Law, and throughput analysis to reduce unnecessary WIP. Controlling WIP improves flow, reduces lead time, and lowers inventory carrying costs.

3. Finished Goods Inventory

Finished goods are completed items ready for sale or distribution. They directly affect customer service levels and replenishment planning. CPIM emphasizes forecasting accuracy, safety stock management, and demand planning methods for finished goods. Excess finished goods increase storage cost and risk of obsolescence; too little results in stockouts and lost sales.

4. Maintenance, Repair, and Operating (MRO) Inventory MRO items support operations but are not used in the final product. Examples include lubricants, tools, cleaning supplies, and spare parts. Although low in unit value, MRO shortages can cause machine downtime or safety issues. CPIM requires understanding how to classify, manage, and forecast MRO inventory to balance cost and availability.

5. Cycle Stock

Cycle stock is the portion of inventory required to meet regular demand during replenishment cycles. It depends on order quantity, EOQ, and batch sizes. CPIM focuses on minimizing cycle stock through better lot sizing, reducing variability, and applying lean principles. Lower cycle stock reduces carrying costs while maintaining service levels.

6. Safety Stock

Safety stock protects against uncertainty in demand or supply. CPIM stresses statistical methods for calculation—considering variability, desired service levels, and lead time. Too much safety stock inflates carrying costs; too little increases risk of stockouts. Understanding when and how to adjust safety stock is critical for stable operations.

7. Anticipation Inventory

Anticipation inventory is built ahead of expected seasonal peaks, promotions, or price increases. CPIM requires understanding demand patterns, capacity constraints, and cost-benefit analysis of pre-building inventory. This inventory smooths production, reduces overtime, and improves service readiness during predictable spikes.

8. Fluctuation (Buffer) Inventory

Fluctuation inventory is used to handle random demand variations that cannot be predicted with accuracy. It differs from safety stock because it specifically addresses short-term, immediate fluctuations. CPIM highlights methods to buffer variability using statistical forecasting and lead-time analysis.

9. Pipeline (Transit) Inventory

Pipeline inventory refers to items in transit between locations—supplier to plant, plant to warehouse, or warehouse to customer. Lead time, transportation modes, and global sourcing influence pipeline levels. CPIM focuses on optimizing transit times and reducing international supply chain delays to lower pipeline inventory costs.

10. Hedge Inventory

Hedge inventory is held as a precaution against uncertain events such as strikes, currency fluctuations, geopolitical risks, or market volatility. CPIM emphasizes evaluating risk probability, cost trade-offs, and contingency planning before building hedge stock.

11. Decoupling Inventory

Decoupling inventory allows different work centers or processes to operate independently. It protects production flow from disruptions or variability in upstream processes. CPIM highlights the importance of decoupling points, particularly in make-to-order and assemble-to-order systems.

12. Dead Stock or Obsolete Inventory

Dead stock includes items that can no longer be sold or used. Causes include poor forecasting, engineering changes, or product life cycle completion. CPIM requires identifying dead stock early through ABC analysis, cycle counting, and inventory turnover metrics to minimize carrying and disposal costs.

13. ABC Inventory Classification

ABC classification ranks items based on annual consumption value: 'A' items are high-value and tightly controlled, 'B' are medium, and 'C' are low-value with simpler control. CPIM emphasizes applying the Pareto Principle (80/20 rule), cycle counting, and differentiated planning policies for each class.

14. VED Classification (Vital, Essential, Desirable)

VED is used primarily for spare parts and MRO items. Vital items are critical to operations and cannot face stockouts; essential items are important but manageable; desirable items are low criticality. CPIM stresses aligning service levels and stocking policies according to operational risk.

15. FSN Classification (Fast, Slow, Non-moving)

FSN classification groups items based on consumption or movement rate. Fast-moving items require tight replenishment; slow-moving items need careful inventory control; non-moving items require review for liquidation or disposal. CPIM uses FSN to optimize warehouse space and inventory turnover.

16. HML Classification (High, Medium, Low Cost)

HML classification evaluates inventory based on unit price rather than consumption value. It helps determine purchasing controls, approval processes, and stocking levels. CPIM highlights using HML in conjunction with other classifications for strategic decision-making.

17. SDE Classification (Scarce, Difficult, Easy to Obtain)

SDE is based on the availability of items from suppliers. Scarce items require long-term planning and buffer stock; difficult items need careful supplier monitoring; easy-to-obtain items require minimal safety stock. CPIM emphasizes aligning procurement strategies with SDE classifications.

18. GOLF Classification (Government, Ordinary, Local, Foreign)

GOLF classification is used in procurement-driven environments. Foreign items tend to have longer lead times; government-supplied items may involve strict compliance; local items are generally more flexible. CPIM focuses on how sourcing origin affects lead time, risk, and inventory levels.

19. SOS Classification (Seasonal, Off-season)

This classification helps manage items with seasonal demand patterns. Seasonal items require anticipation stock and capacity planning, while off-season items may need reduced production or discounted sales. CPIM stresses demand forecasting and inventory balancing throughout the year.

20. Multi-criteria Inventory Classification (MCIC)

MCIC combines multiple attributes—value, velocity, criticality, lead time, risk, cost, etc.—to classify inventory with greater precision. CPIM highlights this integrated approach for complex supply chains where single-parameter methods (like ABC or FSN) are insufficient.

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



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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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