

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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Replenishment Planning

- 1. Purpose and Importance of Replenishment Planning
 Replenishment planning ensures that inventory is available
 at the right time, in the right quantity, and at the right
 location to meet customer demand while minimizing
 carrying costs. It supports service-level goals, improves cash
 flow, and reduces stockouts and lost sales. CPIM
 emphasizes understanding how replenishment integrates
 with forecasting, material planning, sourcing, and
 distribution. A strong replenishment process balances
 responsiveness with efficiency and aligns inventory policies
 with business strategy, demand patterns, and supply chain
 constraints.
- 2. Demand Forecasting and Its Role in Replenishment Forecast accuracy directly influences replenishment decisions. Replenishment planning relies on forecasting models—moving averages, exponential smoothing, seasonality analysis, and causal methods—to estimate future demand. CPIM stresses how forecast errors propagate through the supply chain, affecting safety stock, order size, and service levels. Understanding forecast bias, variability, and monitoring metrics helps planners adjust replenishment strategies. Effective forecasting reduces uncertainty and improves decision-making.
- 3. Inventory Policies (Continuous vs. Periodic Review)
 Inventory policies define when and how much to replenish.
 Continuous review systems trigger orders based on inventory position reaching a reorder point, while periodic review systems place orders at fixed intervals. CPIM requires, understanding which policy suits | +91-900-304-9000

different demand patterns, lead times, and cost structures. Each policy influences safety stock needs, workload, and responsiveness. Mastering policy selection is fundamental for effective replenishment planning.

4. Reorder Point (ROP) Planning

ROP planning is used when demand is relatively stable. A replenishment order is triggered when inventory reaches a predefined point that accounts for demand during lead time and safety stock. CPIM emphasizes understanding each component—lead time, average demand, variability—and how they interact. ROP systems are simple, responsive, and widely used in distribution environments. Proper ROP calculation minimizes stockouts and reduces excess inventory.

5. Safety Stock and Service-Level Management

Safety stock compensates for variability in demand and lead time. Determining appropriate safety stock levels requires statistical analysis, service-level goals, and knowledge of demand patterns. CPIM focuses on key service-level metrics such as fill rate and cycle service level, and their impact on customer satisfaction. Proper safety stock setting balances cost and resilience. Planners must understand how variability affects replenishment frequency and risk exposure.

6. Economic Order Quantity (EOQ) and Order Sizing Techniques

EOQ determines the optimal order quantity that minimizes total ordering and holding costs. CPIM includes EOQ variations such as quantity discounts, production order

quantity, and constraints-based models. Order sizing methods like POQ (Period Order Quantity), Lot-for-Lot, and Min-Max are used depending on demand patterns. Understanding order sizing helps prevent excessive inventory and reduces operational cost.

7. Lead Time and Lead Time Variability

Lead time includes processing time, supplier production, transportation, and receiving. Variability in lead time increases replenishment uncertainty and requires higher safety stock. CPIM emphasizes analyzing supplier reliability, transportation risks, and process delays to build accurate replenishment models. Effective lead-time management enables better predictability and improves customer service while reducing inventory requirements.

8. Distribution Requirements Planning (DRP)

DRP determines when and how much stock should be replenished across a multi-echelon distribution network. It uses time-phased planning logic similar to MRP, but focuses on demand at distribution centers instead of manufacturing components. CPIM stresses understanding DRP inputs, including forecasts, BOM-like structures, lot sizing, and lead times. DRP enables synchronized replenishment, reduces bullwhip effects, and improves network inventory efficiency.

9. Multi-Echelon Inventory Optimization (MEIO)

MEIO considers inventory across multiple supply chain levels (plants, warehouses, distribution centers) and optimizes safety stock positioning based on variability and dependencies. CPIM explains how MEIO reduces total

system inventory while maintaining service levels by pooling risk and optimizing placement decisions. Understanding demand dependencies, service-level targets, and lead-time structures is essential for effective multi-echelon replenishment planning.

10. Vendor-Managed Inventory (VMI)

VMI transfers replenishment responsibility from the customer to the supplier. Suppliers monitor inventory levels and generate replenishment orders themselves. CPIM emphasizes advantages such as reduced stockouts, improved service levels, and greater supply chain collaboration. Understanding data-sharing requirements, performance metrics, and trust mechanisms is important. VMI improves visibility but requires strong integration and accurate information flow.

11. Collaborative Planning, Forecasting, and Replenishment (CPFR)

CPFR enhances replenishment planning by fostering collaboration between supply chain partners at multiple stages—forecasting, order planning, and inventory management. CPIM highlights its role in reducing uncertainty, aligning expectations, and improving responsiveness. Key activities include joint forecasting, exception management, and synchronized replenishment schedules. Successful CPFR requires high-quality data, trust, and sophisticated communication tools.

12. Min-Max Planning Systems

Min-max planning sets a minimum and maximum inventory level for each item. When inventory drops below the

minimum, it is replenished up to the maximum. CPIM emphasizes how min-max systems support simple, visual replenishment and are commonly used in distribution environments. Properly set limits prevent stockouts and reduce excess inventory. This method requires periodic review and adjustments based on consumption trends and lead-time changes.

13. Consumption-Based Replenishment (Kanban)

Kanban is a pull-based replenishment system where consumption triggers replenishment signals. CPIM teaches Kanban principles such as small lot sizes, visual control, and continuous flow. It emphasizes that Kanban works best in stable, repetitive environments with reliable lead times. Understanding physical vs. electronic Kanban, container sizing, and signal rules is essential. Kanban reduces inventory levels and increases responsiveness.

14. ABC/XYZ Analysis for Replenishment Segmentation

ABC analysis classifies items by value and consumption, while XYZ classifies items based on variability. Combining both creates tailored replenishment strategies for different item profiles. CPIM highlights using segmentation to set stocking policies, safety stock levels, and replenishment frequency. High-value, stable items need tight control, while unpredictable, low-value items require different planning rules. Segmentation improves efficiency and service levels.

15. Order Point vs. Order Quantity Interactions

Effective replenishment planning requires understanding how order points and order quantities interact to affect inventory levels. CPIM emphasizes analyzing the frequency

of replenishment, average inventory, service levels, and warehousing space implications. Misalignment between order point and order quantity leads to stockouts or excess inventory. Proper interaction design ensures smooth and predictable inventory flow.

16. Seasonal and Promotional Replenishment Planning
Seasonality and promotions create uneven demand spikes
that require proactive replenishment planning. CPIM
focuses on understanding demand shaping, prebuild
strategies, collaborative forecasting, and risk mitigation.
Planners must adjust safety stock levels, increase order
quantities, and align replenishment with marketing and
sales plans. Accurate timing prevents shortages and avoids
costly overstocks post-season or post-promotion.

17. Replenishment Planning in Make-to-Stock (MTS) vs. Make-to-Order (MTO)

Replenishment differs significantly between MTS and MTO systems. MTS relies heavily on forecasts and stocking policies, whereas MTO replenishment focuses on raw materials aligned with customer orders. CPIM emphasizes understanding how demand patterns, lead times, and customer expectations influence replenishment strategy. Proper alignment prevents misallocation of inventory and improves production responsiveness.

18. Replenishment Constraints and Capacity Considerations

Constraints such as supplier capability, transportation capacity, storage limitations, and order minimums affect replenishment planning. CPIM stresses analyzing constraint

impacts using tools like rough-cut capacity planning and supplier capacity profiles. Understanding constraints enables realistic replenishment schedules and improves supply chain reliability. Proper constraint management reduces delays and improves service levels.

19. Technology and Automation in Replenishment
Advanced systems—ERP, MRP, DRP, WMS, and AI-driven
planning tools—enhance replenishment accuracy and
responsiveness. CPIM emphasizes understanding how
technology supports inventory visibility, real-time data
updates, automated ordering, and analytics-based
optimization. Automation reduces manual errors and
improves coordination across supply chain partners.
Planners must understand system logic and parameters for
effective use.

20. Performance Metrics for Replenishment Planning
Key replenishment KPIs include service level, fill rate,
stockout rate, cycle stock, inventory turnover, and order
accuracy. CPIM highlights how monitoring KPIs enables
continuous improvement and strategic decision-making.
Metrics identify root causes of poor performance—forecast
errors, lead-time variability, or supplier issues. Strong
performance measurement ensures replenishment
processes remain aligned with business goals and customer
expectations.

Micro-Learning Programs in Supply Chain Management & Procurement



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- 2. Supply Chain Planning and Optimization
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- 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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