

CSCP On-Demand Training for Self-Study Professionals

Are you preparing for the CSCP 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 CSCP 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

1. Definition and Purpose of Inventory

Inventory represents the stock of raw materials, workin-process (WIP), and finished goods held to support production and customer service. It acts as a buffer between supply and demand, ensuring product availability and operational continuity. Proper inventory management balances customer satisfaction, cost efficiency, and working capital utilization—key to overall supply chain performance.

2. Types of Inventory

The main types include raw materials, work-inprocess (WIP), finished goods, maintenance, repair, and operating (MRO) supplies, and transit inventory. Each type serves a distinct purpose within the production and distribution process. Understanding their characteristics helps optimize planning, handling, and control strategies across the supply chain.

3. Functions of Inventory

Inventory fulfills several critical functions: it decouples operations, absorbs demand fluctuations, supports production economies of scale, enables geographic specialization, and protects against supply chain uncertainties. Recognizing these roles allows organizations to strategically position inventory where it adds the most value and resilience.

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4. Inventory Costs

Inventory costs include ordering/setup costs, holding/carrying costs, shortage costs, and purchase costs. Balancing these costs is key to determining optimal inventory levels. Excessive inventory ties up capital and increases storage expenses, while insufficient inventory risks stockouts and lost sales—impacting profitability and customer trust.

5. Independent vs. Dependent Demand

Independent demand arises from external customer orders (e.g., finished goods), while **dependent demand** is derived from the need for components or materials to produce those goods. Managing these demand types requires different approaches—forecasting for independent demand and material requirements planning (MRP) for dependent demand.

6. ABC Classification

ABC analysis segments inventory based on value or usage importance—A-items (high value, tight control), B-items (moderate value), and **C-items** (low value, simple control). This prioritization helps allocate management effort and resources efficiently, focusing attention on the most critical items affecting financial performance.

7. Economic Order Quantity (EOQ)

EOQ is the optimal order quantity that minimizes total inventory costs—balancing ordering and holding costs. It assumes constant demand, lead time, and no quantity discounts. Though simplistic, EOQ provides a valuable foundation for understanding cost trade-offs in replenishmentsdegisions. Certifications@Fhyzics.net | +91-900-304-9000

8. Reorder Point (ROP)

The reorder point is the inventory level at which a new order should be placed to avoid stockouts. It depends on **lead time demand** and **safety stock**. Formula:

ROP = (Demand × Lead Time) + Safety Stock. Understanding ROP helps synchronize ordering with consumption and supplier performance.

9. Safety Stock

Safety stock provides a cushion against uncertainty in demand or supply. The level depends on variability and desired service level. Too much safety stock increases carrying costs, while too little risks shortages. Advanced models incorporate statistical methods to balance risk and cost effectively.

10. Lead Time and Its Variability

Lead time is the time between placing and receiving an order. Variability in lead time adds uncertainty, requiring more safety stock. Reducing lead time through supplier reliability, automation, or local sourcing enhances responsiveness and lowers overall inventory levels.

11. Inventory Turnover Ratio

Inventory turnover measures how often inventory is sold or used within a period. Formula:

Turnover = Cost of Goods Sold ÷ Average Inventory.

A higher turnover indicates efficient inventory
management and faster cash flow, while low turnover may
suggest overstocking or slow-moving items.

12. Cycle Counting

Cycle counting is a continuous inventory verification method where selected items are counted periodically rather than performing a full physical inventory. It improves accuracy, reduces disruption, and supports root-cause analysis for errors in recordkeeping, ensuring reliable inventory data for planning systems.

13. Inventory Accuracy and Record Integrity

Accurate inventory records are critical for effective planning, replenishment, and customer service. Accuracy is maintained through cycle counting, barcoding, RFID, and disciplined transaction reporting. Record integrity ensures synchronization between physical inventory and system data—minimizing errors in MRP and ERP outputs.

14. Service Level and Fill Rate

Service level measures the probability of meeting customer demand from available inventory, while fill rate measures the percentage of demand actually fulfilled. Both metrics guide safety stock decisions and inventory policies, balancing cost and customer satisfaction in demand-driven environments.

15. Just-in-Time (JIT) Inventory

JIT minimizes inventory by synchronizing production and delivery with actual demand. It reduces waste and carrying costs but requires stable processes, reliable suppliers, and accurate demand signals. JIT emphasizes quality, speed, and coordination to maintain flow with minimal buffers.

16. Vendor-Managed Inventory (VMI)

In VMI, suppliers monitor customer inventory levels and replenish stock as needed. It improves supply visibility, reduces stockouts, and strengthens collaboration. Successful VMI programs depend on shared data, trust, and aligned objectives between suppliers and buyers.

17. Consignment Inventory

Consignment inventory is owned by the supplier until used or sold by the buyer. It helps reduce buyer risk and carrying costs while ensuring product availability. For suppliers, it strengthens relationships and provides better insight into end-customer demand.

18. Inventory Performance Metrics

Key metrics include **inventory turnover**, **days of supply**, **fill rate**, **stockout rate**, and **inventory accuracy**. Tracking these KPIs helps measure effectiveness, identify improvement opportunities, and align inventory strategy with business objectives like service level and cost control.

19. Bullwhip Effect and Inventory Amplification

The bullwhip effect occurs when small demand fluctuations at the customer level cause large swings in inventory levels upstream. Causes include forecast inaccuracy, batch ordering, and long lead times. Solutions include information sharing, demand smoothing, and collaborative planning (CPFR).

20. Inventory Optimization and Technology

Modern supply chains use advanced analytics, AI, and ERP/MRP systems for inventory optimization. Tools like multi-echelon inventory optimization (MEIO) and machine learning forecasting help balance stock across networks, reduce capital tie-up, and maintain high service levels through data-driven insights.

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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