

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.

Mobile: +91-900-304-9000 (WhatsApp)

Email: Certifications@Fhyzics.net



Materials and Inventory

1. Purpose of Materials and Inventory Management

Materials and inventory management ensures the right materials are available at the right time, in the right quantity, and at the right cost. It balances demand fulfillment with cost efficiency. Effective management supports continuous production, reduces stockouts, minimizes excess inventory, and optimizes cash flow—all crucial for operational excellence and customer satisfaction.

2. Types of Inventory

Inventory includes raw materials, work-in-process (WIP), finished goods, maintenance, repair, and operating (MRO) supplies, and pipeline inventory. Understanding these types helps determine appropriate control strategies. For instance, raw materials require supplier coordination, while finished goods are closely tied to demand planning and customer service goals.

3. Inventory Functions and Objectives

Inventory serves multiple functions—meeting demand, decoupling operations, hedging against uncertainties, and enabling economies of scale. The main objectives are maintaining service levels while minimizing costs. Balancing these roles requires data-driven policies for order quantities, safety stock, and lead times aligned with business priorities.

4. Inventory Costs

Inventory costs include **ordering costs**, **holding (carrying) costs**, **shortage costs**, and **purchase costs**. Holding costs—such as storage, obsolescence, and insurance—are typically the most significant. Understanding cost components helps determine the economic balance point and supports cost optimization decisions like EOQ or JIT implementation.

5. ABC Inventory Classification

ABC analysis classifies items based on their annual consumption value—**A items** (high-value, tight control), **B items** (moderate value, periodic review), and **C items** (low-value, basic control). This method focuses management attention and resources on the most critical inventory segments for better control and performance.

6. Cycle Counting and Physical Inventory

Cycle counting involves continuous, periodic counting of subsets of inventory rather than a full shutdown for annual counts. It improves accuracy, identifies systemic errors, and enhances process discipline. Accurate records are vital for MRP reliability, financial reporting, and efficient operations.

7. Economic Order Quantity (EOQ)

EOQ is a fundamental formula for determining the optimal order quantity that minimizes total ordering and holding costs. It assumes stable demand and lead times. While simplistic, EOQ provides a valuable baseline for understanding inventory dynamics and cost trade-offs.

8. Reorder Point (ROP) and Safety Stock

The **reorder point** signals when to replenish inventory, considering demand during lead time and safety stock. **Safety stock** acts as a buffer against variability in demand or supply. Setting the right ROP ensures continuity without overstocking and aligns closely with service level objectives.

9. Service Level and Fill Rate

Service level measures the probability of not facing a stockout, while fill rate represents the percentage of customer demand met directly from available stock. Both are critical indicators of inventory performance. Higher service levels often increase costs, so balancing them is key for competitiveness.

10. Lead Time and Lead Time Variability

Lead time is the duration between ordering and receiving inventory. Variability in lead time directly affects safety stock and inventory accuracy. Reducing and stabilizing lead times through supplier collaboration and process improvements strengthens supply chain responsiveness.

11. Just-in-Time (JIT) Inventory Management

JIT minimizes inventory by producing or procuring materials only as needed. It emphasizes waste elimination, short lead times, and close supplier coordination. JIT requires high-quality processes and reliable suppliers but results in lower inventory costs and higher operational efficiency.

12. Kanban and Pull Systems

Kanban is a visual signal used in pull-based systems to trigger material replenishment based on actual consumption rather than forecasts. It enhances flow, reduces WIP, and aligns inventory levels with real demand. Kanban is a cornerstone of lean material management.

13. Materials Requirement Planning (MRP)

MRP determines material requirements and timing based on the master production schedule and bill of materials (BOM). It ensures material availability for production while minimizing excess inventory. MRP is vital for coordinating purchasing, production, and inventory control in complex environments.

14. Vendor-Managed Inventory (VMI)

In VMI, suppliers monitor and replenish inventory based on agreed-upon parameters and real-time consumption data. It strengthens collaboration, reduces stockouts, and streamlines procurement. However, it requires trust, data sharing, and clearly defined performance metrics.

15. Consignment Inventory

Consignment inventory remains the supplier's property until used or sold by the buyer. It reduces buyer working capital but increases supplier risk. It's useful in stable, long-term relationships where trust and demand predictability are high.

16. Inventory Performance Metrics

Key performance indicators include **inventory turnover**, **days of supply**, **inventory accuracy**, **carrying cost percentage**, and **stockout rate**. Monitoring these metrics helps identify inefficiencies, support benchmarking, and improve financial and operational outcomes. High-performing supply chains maintain high turnover with stable service levels.

17. Inventory Valuation Methods

Valuation methods—FIFO (First-In, First-Out), LIFO (Last-In, First-Out), and Weighted Average Cost (WAC)—affect financial reporting and tax obligations. The chosen method influences profit margins, cost of goods sold, and balance sheet valuation. Consistent application ensures accurate cost visibility and compliance.

18. Inventory Optimization Techniques

Optimization combines forecasting, replenishment, and classification models to achieve ideal inventory levels. Techniques include multi-echelon optimization, safety stock simulation, and service-level modeling. These methods integrate data analytics with policy decisions to balance risk, cost, and responsiveness across the supply network.

19. Obsolete and Excess Inventory Management

Obsolete inventory consists of items no longer in demand or usable. Managing it involves periodic review, write-offs, and disposal or resale strategies. Excess inventory ties up capital and warehouse space, so root-cause analysis of overstock helps refine demand planning and purchasing processes.

20. Sustainability and Green Inventory Practices

Sustainable inventory management focuses on minimizing waste, reducing carbon footprint, and optimizing packaging and transportation. Practices like reverse logistics, recycling, and product life cycle analysis support environmental goals. Aligning inventory policies with sustainability objectives enhances brand value and regulatory compliance.

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



Fhyzics Business Consultants Pvt. Ltd.

Professional Training Partner of ASCM, USA www.Fhyzics.net

ASCM Referral Code XEFHYZ88

Certifications@Fhyzics.net +91-900-304-9000

CSCP aspirants may buy the CSCP
Learning System and Examination
Credits directly through ASCM Portal.
When purchasing CSCP Examination
Credit, please enter Referral
Code XEFHYZ88 to receive CSCP
Recertification Guidance for life.