

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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Supply Plans, Categories, and Segmentation

1. Definition and Purpose of Supply Planning

Supply planning ensures that materials, production, and logistics resources are aligned to meet forecasted demand. It balances customer service levels, inventory investment, and operational efficiency. The goal is to ensure the right product is available at the right time and place, without excess cost. Effective supply planning integrates demand forecasts with production and procurement strategies across the supply chain.

2. Levels of Supply Planning

Supply planning occurs at **strategic**, **tactical**, **and operational** levels. Strategic planning sets long-term
capacity and infrastructure; tactical planning determines
medium-term production and inventory policies; and
operational planning executes daily and weekly schedules.
Understanding these levels ensures that supply chain
decisions remain consistent, feasible, and synchronized
across time horizons.

3. Aggregate Planning

Aggregate planning determines production, inventory, and workforce levels over a medium-term horizon (typically 6–18 months). It seeks to balance demand and capacity using strategies like chase, level, or hybrid plans. Aggregate planning provides the foundation for detailed master scheduling and helps align business goals with supply capabilities.

4. Master Production Scheduling (MPS)

MPS translates the aggregate plan into specific production quantities and timing for individual products. It acts as a bridge between planning and execution by setting priorities for manufacturing. A stable, accurate MPS helps optimize capacity utilization, minimize stockouts, and support efficient material planning.

5. Material Requirements Planning (MRP)

MRP determines what materials are needed, when, and in what quantity to support production schedules. It uses inputs like the bill of materials (BOM), inventory records, and MPS data. MRP ensures component availability, minimizes inventory levels, and supports efficient production flows—critical to effective supply planning.

6. Distribution Requirements Planning (DRP)

DRP extends MRP principles to distribution networks. It calculates replenishment needs for warehouses and distribution centers based on demand forecasts and inventory policies. DRP improves customer service, reduces logistics costs, and ensures synchronized supply flow throughout the distribution network.

7. Rough-Cut Capacity Planning (RCCP)

RCCP checks whether the master production schedule is feasible by comparing planned production with available capacity at key resources. It prevents overloading of critical work centers and highlights where additional capacity or schedule adjustments are needed. RCCP helps maintain a realistic and achievable supply plan.

8. Capacity Requirements Planning (CRP)

CRP takes a detailed view of capacity needs across all work centers. It identifies bottlenecks and supports scheduling adjustments to meet demand efficiently. CRP helps balance workloads, reduce overtime, and maintain smooth production flows, ensuring that supply plans are operationally feasible.

9. Inventory Planning and Policies

Inventory planning defines the optimal levels and positioning of stock to support supply plans. It includes safety stock calculations, reorder points, and replenishment policies. The goal is to minimize total cost while maintaining target service levels. Inventory segmentation ensures that different items receive appropriate planning attention.

10. Supply Categories and Planning Approaches

Supply categories refer to types of supply processes—such as make-to-stock (MTS), assemble-to-order (ATO), make-to-order (MTO), and engineer-to-order (ETO). Each category requires a distinct planning approach. For instance, MTS relies on forecasts, while MTO depends on actual orders. Understanding these categories ensures planning aligns with customer and product characteristics.

11. Product Segmentation by Demand and Supply Attributes

Product segmentation classifies items based on demand patterns, profitability, lead time, or volume (e.g., ABC or XYZ analysis). Segmenting products helps tailor supply plans—high-value items may require tighter control, while low-value items can be planned more flexibly. This enhances resource efficiency and service balance net | +91-900-304-9000

12. ABC and XYZ Classification

ABC analysis segments items by value (A = high, B = moderate, C = low), while XYZ analysis segments by demand variability (X = stable, Z = unpredictable). Combining both helps prioritize planning and stocking efforts. A-X items require precise forecasts, while C-Z items may rely on make-to-order strategies.

13. Supply Chain Segmentation

Supply chain segmentation divides the overall supply network into distinct streams based on product, customer, or channel characteristics. Each segment follows customized planning, sourcing, and fulfillment strategies. Segmentation improves responsiveness, cost efficiency, and alignment with customer expectations.

14. Demand-Supply Balancing

Balancing demand and supply involves reconciling forecasted demand with available supply capacity. Techniques include adjusting production rates, changing inventory levels, or influencing demand through promotions. Maintaining equilibrium ensures stable operations, minimized shortages, and optimized working capital.

15. Sales and Operations Planning (S&OP) Integration

S&OP aligns supply plans with business and financial objectives through cross-functional collaboration. It integrates marketing forecasts, production capacities, and financial constraints to create a unified plan. Regular S&OP cycles enable proactive adjustments and improve organizational agility in balancing demand and supply.

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

CPFR involves joint forecasting and supply planning between trading partners to improve visibility and reduce uncertainty. Shared data enables synchronized replenishment and better alignment of production with actual market demand. CPFR enhances supply chain efficiency and reduces stockouts or excess inventory.

17. Supply Constraints and Bottleneck Management

Identifying and managing constraints ensures that supply plans remain achievable. Bottlenecks—whether due to limited capacity, material shortages, or logistics delays—can disrupt execution. Techniques such as the Theory of Constraints (TOC) help prioritize improvement efforts and maintain continuous supply flow.

18. Safety Stock and Lead Time Management

Safety stock protects against uncertainties in demand or supply lead time. Calculating optimal safety stock ensures customer service continuity without excessive inventory. Managing supplier and production lead times is equally crucial for maintaining supply reliability and cost control.

19. Scenario and What-If Analysis

Scenario analysis tests how changes in demand, capacity, or supply disruptions affect the supply plan. Using simulation tools, planners can evaluate alternative strategies—such as increasing capacity, changing suppliers, or adjusting schedules—to minimize risk and maintain stability under uncertainty.

20. Technology and Analytics in Supply Planning

Advanced planning systems (APS), AI, and machine learning tools optimize supply plans by processing vast datasets and dynamic variables. These tools enhance forecast accuracy, automate scenario analysis, and support end-to-end visibility. Technology-driven planning enables proactive decision-making and greater supply chain resilience.

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. Al 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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