

# **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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#### **Planning Operations**

#### 1. Purpose of Operations Planning

Operations planning ensures that supply chain resources—materials, capacity, and workforce—are aligned with demand forecasts and organizational objectives. It bridges strategic goals with tactical execution, balancing efficiency, service levels, and cost. Effective planning minimizes waste, optimizes lead times, and enables smooth production flow while meeting customer delivery expectations.

2. Hierarchy of Planning (Strategic, Tactical, Operational)
Supply chain planning operates on three levels: strategic
(long-term network and policy decisions), tactical (mid-term resource allocation), and operational (short-term execution). Aligning these levels ensures consistency between corporate goals and day-to-day operations.
Integration across horizons is key to agility and responsiveness in dynamic markets.

#### 3. Sales and Operations Planning (S&OP)

S&OP aligns supply and demand through a cross-functional process involving sales, marketing, production, and finance. It focuses on balancing capacity, inventory, and demand forecasts to ensure business objectives are met. Successful S&OP enhances visibility, improves collaboration, and supports proactive decision-making across the enterprise.

#### 4. Master Production Schedule (MPS)

The MPS translates the S&OP plan into a detailed production schedule that specifies what products to make, when, and in what quantities. It drives material and

capacity planning. A well-maintained MPS preventsstockouts, minimizes excess inventory, and ensures stableproduction flow.

#### 5. Material Requirements Planning (MRP)

MRP determines what materials are needed, in what quantities, and when they should be ordered or produced. It relies on inputs from the MPS, bill of materials (BOM), and inventory records. MRP improves material availability, production efficiency, and customer satisfaction while minimizing working capital.

#### 6. Capacity Requirements Planning (CRP)

CRP evaluates whether available capacity (labor, machines, work centers) can meet the production schedule. It identifies bottlenecks and supports resource adjustments, such as overtime or subcontracting. Accurate CRP ensures realistic production plans and avoids disruptions due to capacity shortfalls.

#### 7. Rough-Cut Capacity Planning (RCCP)

RCCP is a high-level analysis used to verify that the master production schedule is feasible based on critical resource constraints. It focuses on key work centers or labor groups. RCCP helps prevent overloading early in the planning cycle before detailed CRP is performed.

#### 8. Distribution Requirements Planning (DRP)

DRP plans the replenishment of finished goods across the distribution network. It aligns warehouse inventory, transportation schedules, and customer demand. DRP

ensures product availability at the right location and timewhile minimizing carrying costs and optimizing logisticsefficiency.

#### 9. Advanced Planning and Scheduling (APS)

APS systems integrate production, distribution, and procurement planning using real-time data and optimization algorithms. They provide dynamic scenario analysis to balance constraints and objectives. APS enhances agility, reduces planning cycles, and enables better synchronization across global supply chains.

#### 10. Finite vs. Infinite Capacity Planning

Finite capacity planning respects resource limits when scheduling, while infinite capacity planning assumes unlimited resources. Understanding both helps planners choose the right approach based on business priorities. Finite planning creates more realistic schedules but requires greater computational effort and flexibility.

#### 11. Push vs. Pull Planning Systems

**Push systems** schedule production based on forecasts (e.g., MRP), while **pull systems** trigger replenishment based on actual consumption (e.g., Kanban). Effective planning integrates both to balance responsiveness with efficiency. Push-pull boundaries define where forecast-driven versus demand-driven control should occur.

#### 12. Demand-Driven MRP (DDMRP)

DDMRP combines traditional MRP with lean and TOC (Theory of Constraints) principles. It uses strategically positioned buffers to decouple lead times and absorb

variability. DDMRP improves responsiveness and reduces inventory volatility by aligning production with actual demand signals.

#### 13. Lean Production Planning

Lean planning focuses on eliminating waste, reducing variability, and improving flow. It uses tools such as takt time, heijunka (level loading), and visual scheduling to maintain steady production. Lean principles ensure planning supports continuous improvement and customer value delivery.

#### 14. Theory of Constraints (TOC) in Planning

TOC identifies and manages system bottlenecks to maximize throughput. In operations planning, it ensures that schedules and resources prioritize constraint utilization. By focusing on the weakest link, TOC improves flow efficiency, reduces lead times, and enhances profitability.

#### **15. Lot Sizing Techniques**

Lot sizing determines how much to produce or order each time. Common methods include Economic Order Quantity (EOQ), Lot-for-Lot (L4L), and Period Order Quantity (POQ). Proper lot sizing minimizes total cost by balancing ordering/setup costs with inventory holding costs.

#### 16. Lead Time Management

Lead time includes the total time from order placement to delivery. Planning accuracy depends on understanding and managing cumulative lead times across procurement, production, and logistics. Reducing lead times increases responsiveness and improves customer satisfaction.

#### 17. Safety Stock and Buffer Planning

Safety stock protects against uncertainty in demand or supply. Determining optimal safety stock levels requires analyzing variability, service level goals, and lead times. Inadequate safety stock leads to stockouts; excessive levels increase carrying costs. Balancing both is essential for efficient planning.

#### 18. Planning Bill of Materials (BOM)

A planning BOM groups related products or options into families for aggregate forecasting and scheduling. It simplifies planning for product variants and supports efficient resource allocation. Planning BOMs bridge high-level demand with detailed production requirements.

## 19. Collaborative Planning, Forecasting, and Replenishment (CPFR)

CPFR promotes joint planning between supply chain partners by sharing forecasts, production schedules, and inventory data. It improves visibility, reduces bullwhip effects, and enhances trust. Effective CPFR requires synchronized information systems and well-defined collaboration frameworks.

## **20.** Key Performance Indicators (KPIs) in Operations Planning

Important KPIs include plan adherence, forecast accuracy, schedule attainment, and order fulfillment rate. Measuring these indicators ensures alignment between planning and execution. Continuous performance tracking helps organizations refine their planning process, identify inefficiencies, and drive ongoing improvement.

## Micro-Learning Programs in Supply Chain Management & Procurement



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### 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.**

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