

# **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 Chain Master Data**

#### 1. Definition and Importance of Master Data

Master data represents the core, non-transactional information essential for running supply chain operations—such as products, suppliers, customers, locations, and bills of materials. It ensures consistency across systems and departments, forming the foundation for accurate transactions, analytics, and decision-making. Poor master data leads to inefficiencies, errors, and compliance issues, while high-quality master data enables synchronization across ERP, WMS, and TMS platforms.

#### 2. Product Master Data

Product master data defines all characteristics of an item—SKU number, description, dimensions, weight, cost, lead time, and classification. It ensures accurate inventory management, pricing, and forecasting. Standardized product data facilitates communication across supply chain partners, supports demand planning, and prevents duplicate or obsolete item records. Maintaining clean product master data is vital for efficient sourcing, production, and distribution.

#### 3. Customer Master Data

Customer master data contains all relevant information about customers, including billing details, delivery addresses, payment terms, and credit limits. This data supports order management, invoicing, and customer service functions. Accurate and current customer master data enhances customer satisfaction by ensuring correct shipments and timely payments, while reducing errors in communication, taxation, and compliance, +91-900-304-9000

#### 4. Supplier Master Data

Supplier master data includes details about vendors—such as contact information, bank details, product categories, certifications, and performance metrics. It enables effective supplier management, sourcing, and compliance tracking. A well-maintained supplier master allows organizations to assess supplier risk, manage relationships, and improve procurement efficiency. It also facilitates ethical sourcing and sustainability reporting.

#### 5. Location Master Data

Location master data represents physical and virtual sites across the supply chain—plants, warehouses, distribution centers, and customer locations. Each site has attributes like capacity, geography, and handling constraints. Accurate location data is crucial for transportation planning, route optimization, and supply network design. It provides the geographic backbone for logistics and cost optimization models.

#### 6. Bill of Materials (BOM)

A Bill of Materials defines the hierarchical structure of components, subassemblies, and raw materials required to produce a finished product. BOM master data ensures accurate production planning, cost estimation, and material requirements planning (MRP). Managing BOM consistency across engineering and manufacturing functions prevents delays, reduces scrap, and improves traceability and quality assurance.

#### 7. Routing and Process Data

Routing master data specifies the sequence of operations, work centers, and resources required to manufacture a product. It defines process times, labor requirements, and capacity utilization. Accurate routing data ensures efficient scheduling, cost tracking, and production flow. It aligns manufacturing execution with planning systems and supports continuous improvement in operational performance.

#### 8. Pricing and Costing Master Data

Pricing master data maintains information on product prices, discounts, taxes, and freight charges. Costing data captures material, labor, and overhead costs. This information supports profitability analysis, quotation accuracy, and financial reporting. Consistent and transparent pricing and costing data ensure competitive pricing strategies and alignment with financial performance objectives.

#### 9. Inventory Master Data

Inventory master data describes stock characteristics such as SKU type, storage conditions, reorder levels, and safety stock parameters. It supports inventory optimization, warehouse management, and replenishment planning. Reliable inventory master data prevents stockouts and overstocking, enabling accurate valuation and improved inventory visibility across the entire supply chain.

#### 10. Lead Time Master Data

Lead time master data specifies the time required to procure, produce, and deliver materials or products. It includes supplier lead times, production cycle times, and transportation durations. Accurate lead time data is crucial for forecasting, order promising, and MRP accuracy. It helps balance service levels with inventory costs and ensures ontime delivery.

#### 11. Units of Measure (UOM)

UOM master data defines how quantities are expressed (e.g., pieces, kilograms, liters). Consistent UOM data prevents conversion errors between procurement, manufacturing, and sales systems. UOM accuracy ensures proper costing, packaging, and logistics handling. It is essential for global operations where unit standards may differ across regions or partners.

#### 12. Data Governance Framework

Data governance defines the policies, standards, roles, and processes for managing master data. It ensures accountability and compliance across departments. A strong governance framework establishes ownership (data stewards), workflows for approval, and audit mechanisms. Governance prevents data duplication, enforces consistency, and supports data-driven decision-making throughout the organization.

#### 13. Data Quality Management

Data quality management involves monitoring, cleansing, and maintaining accuracy, completeness, and consistency of master data. Techniques include data profiling, validation

rules, and periodic audits. High-quality master dataeliminates rework, reduces transactional errors, andimproves forecasting and reporting accuracy—ultimatelyenhancing overall supply chain efficiency and agility.

#### 14. Master Data Integration Across Systems

Supply chains often rely on multiple systems (ERP, WMS, CRM, SRM). Integration ensures that master data remains consistent across all platforms. Data synchronization through APIs or middleware enables seamless information flow and avoids discrepancies between systems. Integration supports end-to-end visibility and reduces latency in decision-making.

#### 15. Data Standardization and Harmonization

Standardization establishes uniform formats, naming conventions, and classification systems (e.g., GS1, UNSPSC). Harmonized data allows comparison and aggregation across business units, regions, and trading partners. Standardization facilitates automation, regulatory compliance, and analytics, enabling organizations to operate efficiently in multi-entity or global environments.

#### 16. Master Data Lifecycle Management

Lifecycle management covers the creation, use, modification, and retirement of master data. It ensures that outdated or duplicate records are deactivated systematically. Managing the lifecycle prevents clutter, reduces system errors, and supports compliance audits. A structured lifecycle process ensures that master data evolves in line with business changes.

#### 17. Data Ownership and Stewardship

Data stewardship assigns responsibility for maintaining data accuracy and integrity to specific roles within the organization. Data owners establish rules and standards, while data stewards enforce them. Clear accountability ensures that master data remains current, reliable, and compliant with internal and external requirements.

#### 18. Master Data Security and Access Control

Security ensures that only authorized users can view or modify master data. Access controls prevent unauthorized changes and data breaches. Encryption and audit trails protect sensitive supplier and customer data. Proper security policies maintain confidentiality, integrity, and trust in digital supply chain ecosystems.

#### 19. Global Data Synchronization (GDSN)

The Global Data Synchronization Network (GDSN) enables trading partners to exchange standardized product data globally. It ensures accuracy and consistency across markets by using GS1-compliant standards. GDSN helps reduce data discrepancies, enhance collaboration, and improve speed-to-market for products distributed across multiple geographies.

#### 20. Role of Master Data in Digital Supply Chains

In digital supply chains, master data serves as the foundation for technologies like AI, IoT, and blockchain. Clean, structured data enables predictive analytics, automation, and real-time visibility. Without high-quality

master data, digital transformation initiatives fail to deliver expected results. Hence, master data is the core enabler of end-to-end digital integration.

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## 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.**

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