

CLTD On-Demand Training for Self-Study Professionals

Are you preparing for the CLTD 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 CLTD 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 Management and the Role of Logistics

- 1. Definition and Scope of Supply Chain Management SCM refers to the end-to-end coordination of activities involved in sourcing, procurement, production, transportation, warehousing, distribution, and customer service. It includes both upstream (supplier) and downstream (customer) relationships. The objective is to optimize flows of materials, information, and finances to maximize customer value at the lowest total cost. SCM covers strategic planning, network design, operational execution, and continuous improvement. Understanding this broad scope is essential because logistics operates within and supports the overall supply chain.
- 2. Logistics as a Subset of Supply Chain Management
 Logistics focuses specifically on planning, implementing,
 and controlling the efficient flow and storage of goods,
 services, and information between origin and consumption.
 While SCM is strategic and cross-functional, logistics is
 operational but directly impacts cost, speed, and service
 performance. Logistics ensures that the supply chain can
 execute the movement and positioning of inventory. It
 includes transportation, warehousing, order processing,
 distribution, reverse flows, and customer service. Mastering
 this relationship helps clarify exam questions on boundaries
 and integration.
- **3. Key Logistics Functions and Responsibilities**Logistics includes transportation, warehousing, material handling, order fulfillment, packaging, inventory management, and distribution. It also involves related

information flows such as shipment tracking, routing decisions, order status, and service communication. These components must operate cohesively to support the broader supply chain strategy. Understanding each function's purpose and how it contributes to customer satisfaction and cost performance is crucial for CLTD exam success. Logistics functions act as the execution engine of SCM.

4. Supply Chain Flows: Material, Information, and Financial Every supply chain involves three core flows: materials (products, parts, returns), information (orders, forecasts, tracking, invoices), and financial flows (payments, credit terms, freight bills). Effective coordination of these flows improves visibility, reduces uncertainty, and increases efficiency. Logistics manages the physical and some informational flows, enabling synchronized operations across partners. A strong understanding of these flows is essential for assessing how logistics decisions affect supply chain performance.

5. The Role of Logistics in Enhancing Customer Value Logistics directly influences customer satisfaction through delivery speed, accuracy, product availability, order completeness, and flexibility. These service dimensions support market differentiation and customer loyalty. By reducing lead times, minimizing stockouts, and enabling convenient delivery options, logistics enhances perceived value. Understanding how logistics contributes to customer experience—and how service tradeoffs affect cost—is a major CLTD competency.

6. Demand Management and Its Impact on Logistics

Demand management includes forecasting, order management, promotion planning, and demand shaping. Accurate forecasts and effective order management reduce variability, lower safety stock, and improve capacity utilization. Logistics relies on demand information to plan transportation, inventory placement, and warehouse labor. Misaligned demand signals cause increased costs, bullwhip effects, and service issues. Understanding how demand and logistics interact is critical in optimizing the supply chain.

7. Supply Chain Network Design and Logistics Integration

Network design includes determining the number, size, location, and role of facilities such as plants, distribution centers, and cross-docks. Logistics plays a major role by informing transportation costs, service time requirements, labor capabilities, and inventory policies. Network decisions affect responsiveness, total cost, sustainability, and risk exposure. CLTD candidates must understand how logistics data supports strategic network optimization.

8. Transportation's Role in the Supply Chain

Transportation is often the highest logistics cost and shapes service reliability. It connects suppliers, manufacturers, warehouses, and customers. Mode choice, routing, carrier selection, and freight consolidation affect lead times, risk, and cost. Transportation also influences network design, inventory levels, and customer service. Mastery of transportation's impact on supply chain agility and cost performance is essential.

9. Inventory Placement and the Supply Chain

Inventory location strategies—centralized, decentralized, or hybrid—impact cost, delivery speed, and service. Logistics determines where to store products, how much to hold, and how often to replenish. Efficient logistics reduces the need for high inventory levels. Understanding how inventory decisions affect supply chain efficiency and how logistics supports inventory accuracy and movement is vital for CLTD preparation.

10. Procurement and Supplier Relationship Management

Procurement secures needed materials and services at optimal cost, quality, and reliability. Logistics works with procurement to evaluate suppliers, determine transportation terms (Incoterms), manage inbound freight, and monitor lead time performance. Strong supplier relationships improve continuity, reduce cost, and enhance visibility. Understanding how logistics influences inbound supply chain performance is crucial.

11. Manufacturing Logistics and Production Planning

Manufacturing interacts with logistics through material staging, work-in-process (WIP) handling, and production scheduling. Efficient logistics ensures timely availability of raw materials, supports just-in-time (JIT) operations, and reduces downtime. Logistics also moves finished goods into distribution networks promptly. CLTD candidates must grasp this integration to understand total supply chain flow.

12. Distribution and Fulfillment Strategies

Distribution ensures products reach customers efficiently and accurately. Strategies include direct shipping, hub-and

-spoke, centralized vs. regional distribution centers, cross-docking, and last-mile delivery. Logistics determines transportation routing, warehouse picking methods, and service levels. Understanding distribution models helps compare cost-service tradeoffs and optimize logistics networks.

13. Reverse Logistics and Returns Management

Reverse logistics manages product returns, repairs, recycling, and disposal. It aims to recover value, reduce waste, and enhance customer satisfaction. Challenges include unpredictable return volumes, handling costs, and sustainability requirements. Effective reverse flows reduce total supply chain cost and support circular economy objectives. As reverse logistics grows in importance, understanding its processes and metrics is crucial.

14. Supply Chain Integration and Collaboration

Integration improves information sharing and coordination among suppliers, manufacturers, logistics providers, and customers. Tools include CPFR, VMI, EDI, and collaborative planning. Integrated logistics enhances visibility and reduces delays, duplication, and uncertainty. Collaboration reduces costs and improves service levels, making it a critical competency for modern supply chains.

15. Technology in Logistics and Supply Chain Management Technologies such as WMS, TMS, ERP, RFID, IoT, GPS, and automated material handling systems enhance visibility, accuracy, and speed. Technology supports route optimization, inventory tracking, warehouse operations, and analytics. Digital tools increasingly drive logistics

transformation, making it essential to understand how technology enables efficiency and coordination across the supply chain.

16. Supply Chain Performance Metrics and KPIs

Performance measurement includes metrics such as fill rate, on-time delivery, order accuracy, inventory turnover, freight cost per unit, and perfect order index. KPIs align operations with strategic goals and support continuous improvement. Logistics metrics provide insight into cost control and service performance. Understanding KPIs is critical for exam questions on process evaluation.

17. Sustainability and Green Logistics

Sustainable logistics focuses on reducing environmental impact through fuel efficiency, electric vehicles, reusable packaging, modal shifts, waste reduction, and optimized routing. Companies must comply with regulations and meet customer expectations for greener operations.

Understanding how sustainability integrates with cost, efficiency, and compliance is increasingly important.

18. Risk Management in Supply Chains

Supply chain risks include transportation disruptions, supplier failures, geopolitical issues, cyber threats, and natural disasters. Logistics plays a key role in risk mitigation through contingency planning, multiple sourcing, safety stock, carrier diversification, and visibility tools. Understanding risk categories and mitigation strategies is essential for CLTD success.

19. Global Supply Chain and International Logistics

Global logistics involves complex factors such as customs, regulations, documentation, Incoterms, trade lanes, and cultural differences. Transportation choices, lead times, and risk exposure differ significantly from domestic operations. Understanding global freight flows and the logistics challenges associated with cross-border operations is critical for exam preparation.

20. Third-Party Logistics (3PL) and Outsourcing Decisions
3PLs provide logistics services such as transportation,
warehousing, fulfillment, and freight management.
Outsourcing allows companies to focus on core
competencies, reduce capital investment, and gain
expertise. However, it introduces dependency risks and
requires strong contract and performance management.
Understanding when and how to outsource logistics
activities is a key CLTD topic.

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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