

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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Logistics Costing

1. Total Cost of Ownership (TCO) in Logistics

TCO captures all costs associated with acquiring, moving, storing, and managing products—not just the purchase price or freight cost. It includes direct, indirect, and hidden costs such as administrative overhead, damage, obsolescence, supplier reliability issues, and quality failures. Understanding TCO helps organizations make informed logistics decisions that optimize cost over the entire lifecycle rather than focusing on short-term savings. CLTD candidates must recognize how TCO guides sourcing, transportation, and warehousing decisions.

2. Logistics Cost Categories and Structure

Logistics costs fall into major categories: transportation, warehousing, inventory carrying cost, order processing, materials handling, packaging, and administrative expenses. Each category behaves differently—some are variable, some fixed. For accurate costing, companies must understand how each cost contributes to total logistics spend and how decisions influence cost allocation. Mastering cost structure helps identify optimization opportunities and evaluate tradeoffs across the supply chain.

3. Fixed, Variable, Direct, and Indirect Costs

Fixed costs remain constant regardless of activity level (e.g., warehouse rent), while variable costs change with volume (e.g., fuel, labor hours). Direct costs are tied to a specific product or function, whereas indirect costs are shared across operations. Accurate classification helps organizations determine cost behavior, break-even points,

and pricing decisions. In logistics, understanding these cost types is essential for better forecasting and budgeting.

4. Activity-Based Costing (ABC) in Logistics

ABC assigns costs to logistics activities based on actual resource consumption rather than broad averages. Activities such as picking, packing, receiving, and shipping receive cost allocations according to time, labor, and equipment used. ABC improves visibility into true cost drivers and identifies high-cost activities for improvement. It supports more accurate pricing, customer profitability analysis, and process optimization. CLTD emphasizes how ABC enhances cost transparency.

5. Cost-to-Serve (CTS) Analysis

Cost-to-serve evaluates the specific cost required to serve individual customers, channels, or product segments. It includes transportation, handling, order frequency, customization, returns, and service requirements. CTS reveals unprofitable customers or products and helps revise service agreements or fulfillment strategies. By understanding the cost impacts of different service levels, companies can align pricing and service policies. This is a key competency for logistics managers.

6. Transportation Costing and Rate Structures

Transportation costs include line-haul, accessorials, fuel surcharges, freight class, mode-specific fees, and carrier margins. Understanding rate structures—such as LTL tariffs, FTL contracts, parcel dimensional weight rules, and ocean surcharges—is essential. Companies must evaluate mode tradeoffs, consolidation impacts, and carrier negotiations.

Transportation is usually the largest logistics expense, making mastery of cost drivers critical for CLTD exam performance.

7. Warehouse and Distribution Center Costing

Warehouse costs include labor, equipment, space, utilities, maintenance, IT systems, and value-added services. These may be measured per pallet, per order, per line, or per cubic foot. Labor productivity, layout, and slotting have major cost implications. Understanding warehouse cost analysis helps evaluate insourcing vs. outsourcing, automation investments, and performance metrics such as cost per order. CLTD emphasizes identifying the drivers of warehouse cost.

8. Inventory Carrying Cost (ICC) Components

ICC includes capital cost, storage space, taxes, insurance, shrinkage, damage, and obsolescence. Typical ICC percentages range from 20–40% per year depending on the industry. Higher inventory levels significantly increase total logistics cost, even if storage seems inexpensive. Understanding ICC helps optimize safety stock, order quantities, and inventory placement decisions. ICC awareness is essential for balancing cost and customer service.

9. Order Processing and Administrative Costing

Order processing includes receiving orders, validating data, scheduling shipments, invoicing, customer service, and documentation. These costs often appear small but accumulate across thousands of transactions. Companies use automation, EDI, and workflow systems to reduce

processing costs. Understanding administrative cost drivers is important because inefficient order processing affects customer satisfaction, accuracy, and total logistics expenditure.

10. Packaging and Material Handling Cost Analysis

Packaging costs include materials, labor, equipment, and waste. Proper packaging minimizes damage but can also increase cube and transportation cost. Material handling costs include equipment operation, labor movement, and safety requirements. Reducing unnecessary touches, improving layout, and standardizing packaging lowers cost. CLTD candidates must understand how packaging choices influence total logistics cost and service performance.

11. Reverse Logistics Cost Considerations

Returns handling, repair, refurbishment, recycling, and disposal create significant costs. Reverse logistics also involves transportation, labor, inspection, and repackaging. Poor reverse flow management leads to high write-offs, added inventory, and slower cash recovery. Understanding reverse logistics costing helps optimize return policies, design closed-loop systems, and reduce waste. The CLTD curriculum highlights reverse flow as a growing cost driver.

12. Break-Even and Cost-Volume-Profit (CVP) Analysis

CVP analysis determines how costs, revenue, and volume interact. It helps managers calculate break-even points and understand the impact of volume changes on profitability. In logistics, CVP applies to warehouse utilization, fleet operations, outsourcing decisions, and pricing models. Knowing how fixed and variable costs behave at different volumes enables better planning and decision-making.

13. Benchmarking and Best Practices in Logistics Costing

Benchmarking compares cost performance against industry standards, competitors, or internal historical data. It identifies cost gaps, improvement opportunities, and best practices. Key benchmarking metrics include cost per shipment, cost per order, ICC percentage, and transportation cost per mile. Benchmarking helps organizations design actionable cost-reduction initiatives while maintaining service quality.

14. Outsourcing and 3PL Cost Evaluation

Evaluating third-party logistics providers (3PLs) requires analyzing contract terms, service levels, pricing structures, performance metrics, and hidden fees. Outsourcing may reduce capital investment and improve service but introduces dependency risks. Understanding 3PL costing, including transactional pricing and dedicated models, helps companies compare in-house vs. outsourced logistics cost-effectiveness.

15. Cost Tradeoffs Between Logistics Functions

Reducing cost in one logistics area often increases cost in another. For example, using cheaper transportation may increase safety stock; adding warehouses increases facility cost but lowers transportation cost. The goal is optimizing total system cost, not local cost. Understanding tradeoffs helps make decisions aligned with organizational strategy. This is fundamental to logistics costing.

16. Freight Auditing and Payment Processes

Freight auditing verifies that carrier invoices match contracted rates, shipment details, and service levels. It

identifies overbilling, duplicate invoices, accessorial errors, and unauthorized charges. Effective auditing reduces cost leaks and improves billing accuracy. Many companies use third-party firms or software to manage freight payments. Understanding freight audit processes is crucial for cost control and compliance.

17. Budgeting and Forecasting for Logistics Operations
Forecasting logistics costs involves predicting transportation spend, labor needs, fuel prices, capacity availability, and seasonal volume changes. Budgeting establishes cost expectations and allocates resources. Accurate forecasts require historical data, demand projections, and carrier

input. CLTD emphasizes how logistics budgeting supports

strategic planning and proactive cost management.

- 18. Technology and Automation Impact on Logistics Costs
 Automation (e.g., robotics, AS/RS, conveyors) and digital
 tools (WMS, TMS, visibility platforms) can reduce labor cost,
 improve accuracy, and lower handling expenses. Technology
 investment requires analyzing capital expenditure,
 operating cost savings, ROI, and system integration.
 Understanding how technology transforms cost structures
 helps companies justify modernization and continuous
 improvement.
- 19. Measuring Logistics Cost Performance with KPIs
 Key logistics costing metrics include cost per mile, cost per
 cube, transportation cost as a percentage of sales,
 warehouse cost per order, ICC percentage, and total
 logistics cost. KPIs provide visibility into performance, help

detect inefficiencies, and support decision-making. Mastery of logistics cost metrics is essential for CLTD exam success and real-world management.

20. Financial Reporting and the Role of Logistics in Profitability

Logistics performance affects operating profit, cash flow, and asset utilization. Cost savings in logistics directly improve the bottom line. Financial reporting links logistics activities to profitability through statements such as the income statement, balance sheet, and cost accounting reports. Understanding these financial relationships helps logistics leaders communicate their value to senior management.

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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