

# **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.

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#### **Rate Structures**

#### 1. Principles of Transportation Pricing

Understanding the foundations of transportation pricing is essential for evaluating and comparing rate structures. Pricing is influenced by cost, competition, customer demand, and regulatory constraints. Carriers seek to cover operating costs while achieving profit margins, which must be balanced against market expectations. Transportation pricing also reflects service characteristics such as speed, reliability, and value-added services. Grasping how carriers develop base rates, adjust them for service levels, and apply discounts or surcharges enables logistics professionals to evaluate proposals effectively. This concept forms the basis for strategic negotiations and ensures alignment between logistical requirements and cost objectives.

#### 2. Cost-of-Service vs. Value-of-Service Pricing

Carriers use two primary pricing strategies: cost-of-service and value-of-service pricing. Cost-of-service pricing is based on a carrier's operational expenses, ensuring that rates recover costs and add a profit margin. Value-of-service pricing considers the customer's perceived value of transportation, allowing carriers to charge higher rates for high-value or urgent freight. Many rate structures blend these two approaches, leading to differentiated pricing across commodities, lanes, and service levels. Understanding the balance helps logistics professionals predict carrier behavior, evaluate service categories, and analyze whether a proposed rate aligns with market dynamics and operational requirements.

#### 3. Line-Haul Rates and Their Determinants

Line-haul rates represent the core transportation charge for moving freight between origin and destination. These rates depend on distance, mode, shipment size, and lane characteristics such as backhaul availability or traffic imbalances. Carriers may offer lower rates in lanes with excess capacity or competitive pressure. Fuel, labor, regulatory changes, and infrastructure conditions also impact line-haul pricing. Understanding the components of line-haul rates helps in modeling transportation scenarios, identifying cost drivers, negotiating effectively, and aligning freight strategies with network optimization goals.

#### 4. Accessorial Charges

Accessorial charges cover additional services outside the basic transportation function, such as liftgate use, inside delivery, waiting time, hazardous materials handling, and reconsignment. These fees can significantly impact total shipping costs and vary widely by carrier and mode. Understanding accessorial charges is critical when comparing quotes, building accurate freight budgets, and preventing unexpected cost escalations. Logistics professionals must analyze which accessorials are recurring, how carriers calculate them, and whether they can be reduced through process improvements or pre-negotiated terms. Mastery of this concept helps optimize service levels while controlling spend.

#### 5. Fuel Surcharge Mechanisms

Fuel surcharges protect carriers from fluctuations in fuel costs and ensure financial stability. They are typically indexed to government-published fuel price averages and

calculated as a percentage of base line-haul rates or a flat per-mile charge. Each carrier uses its own formula, and surcharges may differ by mode or service level.

Understanding how fuel surcharges are structured helps logistics practitioners forecast expenses, benchmark across carriers, and negotiate more transparent and predictable pricing. Additionally, fuel surcharge strategies can influence modal choices, shipment consolidation decisions, and long-term transportation planning.

#### 6. Commodity Classification and Rating

In LTL shipping, commodity classifications (e.g., NMFC classes) define rate levels based on density, handling, stowability, and liability. Higher classes typically carry higher rates. Incorrect classification can result in reclassification fees and unexpected charges. Understanding classification principles helps ensure accurate pricing, avoid disputes, and optimize packaging to achieve lower freight classes. Commodity-based pricing also applies to rail and maritime shipments where tariffs define rates for specific commodities. Mastery of classifications enables better cost forecasting, compliance with carrier rules, and strategic improvements to shipment configuration.

#### 7. Weight Breaks and Density Pricing

Weight breaks are structured points at which rates per unit change based on shipment size. Heavier shipments typically receive lower per-unit costs due to economies of scale. Density pricing—commonly used in LTL—further adjusts rates based on the shipment's cubic footprint. Carriers reward higher-density, easier-to-handle freight with lower rates. Understanding weight breaks and density thresholds

enables optimization of packaging, load planning, and consolidation strategies to secure lower rates. It also helps accurately compare carrier quotes and identify opportunities to reduce charges by modifying shipment characteristics.

#### 8. Tariff Structures

Tariffs document a carrier's published rates, rules, and accessorials for specific services. Tariffs can be modespecific (e.g., LTL tariffs, rail tariffs) and may include complex conditions tied to shipment characteristics or lane details. Although many shippers negotiate contract rates, tariffs influence baseline pricing and dispute resolution. Understanding tariff language and structure helps logistics professionals navigate rate calculations, evaluate carrier proposals, and ensure compliance with terms. Tariffs also serve as reference points for benchmarking competitive pricing and assessing whether negotiated discounts genuinely offer value.

#### 9. Contract Rates vs. Spot Rates

Contract rates provide long-term price stability through negotiated agreements, while spot rates reflect real-time market conditions. Spot rates fluctuate based on supply-demand imbalances, seasonality, and geopolitical events. Understanding the trade-offs between these two rate types helps logistics practitioners select the right pricing strategy for different lanes, shipment types, and business environments. Contract rates can protect budgets and service levels, while spot rates may offer savings during periods of excess capacity. Balancing both mechanisms ensures cost optimization and supply chain resilience.

#### 10. Mode-Specific Rate Structures

Each transportation mode—truckload, LTL, rail, air, ocean—uses distinct pricing models. Truckload rates often vary by distance, lane balance, and market capacity. LTL uses classification, zone pricing, and minimum charges. Air freight is priced by chargeable weight, combining actual and dimensional weight. Ocean freight uses container-based rates and surcharges. Rail uses commodity tariffs and mileage-based pricing. Understanding these differences helps select the right mode, negotiate effectively, and forecast budgets with greater accuracy. Mode-aware rate analysis supports optimal network design and customer service alignment.

#### 11. Dimensional Weight Pricing

Dimensional (DIM) weight pricing applies to air, parcel, and express shipments to account for space inefficiency. Carriers calculate chargeable weight using a dimensional factor, then compare it to actual weight and bill whichever is higher. Understanding DIM weight encourages better packaging design, consolidation, and mode selection to reduce cost. DIM rules vary by carrier and service level, so mastering these rules ensures accurate rate calculations and prevents cost surprises. This concept is increasingly important with e-commerce growth.

#### 12. Minimum Charge Rules

Minimum charges ensure that carriers recover basic costs regardless of shipment size or distance. LTL carriers often set minimum charges to avoid unprofitable microshipments. Parcel carriers use minimum billable weight rules. Understanding minimum charges helps logistics

professionals avoid underutilized shipments, consolidate loads, redesign order patterns, and interpret carrier quotes accurately. Minimum charge structures also influence mode choice and threshold-based pricing strategies. Mastery of this concept helps prevent unexpected charges and supports more cost-effective shipment planning.

#### 13. Lane-Specific Pricing and Market Imbalances

Different origin—destination pairs have unique pricing due to supply-demand imbalances, carrier network density, and backhaul availability. Inbound-heavy or outbound-heavy markets produce rate disparities. Mastering lane-specific pricing helps logistics professionals understand which lanes are cost-sensitive, identify opportunities for volume leverage, and negotiate better terms. Understanding regional market dynamics enhances forecasting accuracy, mode selection, and overall network efficiency. It also supports strategic routing advisory.

#### 14. Contractual Surcharges and Fees

Beyond fuel and accessorials, many contracts include special fees such as peak surcharges, security charges, environmental fees, overweight penalties, and equipment repositioning charges. Understanding these ensures complete freight budget planning and strengthens negotiation skills. Some surcharges are negotiable depending on volume and service requirements. Logistics professionals must identify which surcharges are recurring, which are avoidable, and which reflect real operational costs. Proper analysis enables better forecasting and more equitable carrier agreements.

#### 15. Rate Benchmarking and Market Intelligence

Benchmarking compares current rates against industry averages, competitor quotes, or digital marketplace indexes. Understanding how to benchmark enables shippers to identify overpriced lanes, evaluate carrier performance, and support data-driven negotiations. Market intelligence covers capacity trends, seasonality, regulatory changes, and macroeconomic conditions. Together, these tools enhance pricing strategy, network design, and risk mitigation. Effective benchmarking helps optimize total transportation spend and enhances contract negotiation leverage.

#### 16. Incoterms and Their Impact on Rate Structures

Incoterms define the responsibilities of buyers and sellers in international trade, including who pays for freight, insurance, duties, and risk transfer. Understanding Incoterms is crucial for calculating accurate landed costs and determining which party controls rate selection. Incorrect application can inflate transportation costs or create disputes. Mastery of Incoterms helps align contracts, reduce risk, and ensure compliance with global trade practices. It also optimizes mode selection and partner negotiation.

#### 17. Volume-Based and Commitment Pricing

Carriers often offer discounted rates based on shipment volume commitments, long-term service contracts, or guaranteed capacity arrangements. Understanding these structures helps logistics professionals negotiate effectively and design cost-efficient distribution strategies. Volume commitments must be forecasted accurately to avoid

penalties. Knowledge of tiered discounting, lane-specific commitments, and carrier incentives ensures balanced agreements that benefit both shipper and carrier.

#### 18. Peak Season and Seasonal Rate Adjustments

Carriers adjust rates during high-demand periods such as holidays, harvest seasons, or global trade surges. These adjustments help carriers manage capacity constraints and maintain service quality. Understanding seasonal pricing helps logistics professionals plan capacity, adjust shipment timing, secure advance bookings, and forecast cost increases. It also supports better negotiation of seasonal surcharges and the development of contingency plans or alternate routing strategies.

#### 19. Cost-to-Serve Analysis and Rate Implications

Cost-to-serve analysis evaluates the true cost of servicing each customer or lane, considering distance, handling requirements, order frequency, and value-added services. Understanding cost-to-serve helps identify unprofitable routes, optimize network decisions, and justify negotiations with carriers. It also supports more accurate product pricing and margin analysis. Mastery of this concept helps align operational decisions with financial goals by linking service requirements directly to rate structures.

#### 20. Total Landed Cost and Rate Structure Integration

Total landed cost includes transportation, duties, storage, handling, and administrative fees. Understanding how rate structures integrate into total landed cost ensures more accurate product costing, sourcing decisions, and customer

pricing strategies. Rate structures influence shipment frequency, mode selection, network design, and supplier relationships. Mastery of total landed cost helps optimize supply chain performance and supports strategic decision-making in global logistics.

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## 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



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