

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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Mobile: +91-900-304-9000 (WhatsApp)

Email: Certifications@Fhyzics.net



Road Market Structure and Operating/Service Characteristics

1. Road Freight Market Overview

The road freight market encompasses domestic and regional cargo movement by trucks, vans, and LCVs. It is highly fragmented, including large fleets, small carriers, owner-operators, and third-party logistics providers. Understanding market structure helps logistics professionals analyze capacity availability, competition, pricing strategies, and service options. Market dynamics vary by region, cargo type, and infrastructure quality. Knowledge of the market is crucial for negotiating contracts, planning transportation strategies, and selecting carriers that align with service expectations and cost efficiency.

2. Market Structure: Perfect Competition vs. Monopoly Road transport markets often operate between perfect competition and monopolistic conditions. In highly competitive urban markets, many small carriers compete for short-haul shipments, keeping prices low. In contrast, monopolistic conditions can exist on specialized routes or remote regions where a single carrier dominates. Understanding market structure enables logistics managers to anticipate pricing trends, negotiate contracts effectively, and assess service reliability. It also helps in planning alternative routing or carrier selection to mitigate risks of limited competition.

3. Carrier Types: Common, Contract, and Private Carriers are classified as common (available to all shippers), contract (dedicated to specific customers), or private (owned by a company for internal transport). Common

carriers offer flexible access but limited service customization, while contract carriers provide tailored services, consistent schedules, and negotiated rates. Private fleets offer maximum control but require capital investment. Mastering these classifications helps determine cost-effectiveness, service reliability, and strategic fit for supply chain operations.

4. Full Truckload (FTL) vs. Less-than-Truckload (LTL) Operations

FTL moves a single shipper's cargo directly from origin to destination, while LTL consolidates multiple shipments to optimize truck utilization. LTL operations involve more handling, terminals, and routing complexity but reduce pershipment cost. Understanding the operational and service differences helps optimize shipment size, cost, and delivery speed. Knowledge of FTL and LTL trade-offs supports mode selection, network planning, and customer service level alignment.

5. Linehaul vs. Local Distribution Services

Linehaul services focus on long-distance transportation between major hubs, while local distribution delivers shipments to final customers or retail locations. Linehaul emphasizes efficiency, speed, and capacity optimization, whereas local delivery emphasizes flexibility, multiple stops, and last-mile accessibility. Understanding the distinction aids in planning multi-leg shipments, carrier selection, and scheduling to meet both cost and service objectives.

6. Service Characteristics: Transit Time and ReliabilityTransit time and reliability are critical service characteristics

influencing carrier selection. Shippers evaluate average transit times, schedule adherence, and variability. Reliable carriers reduce inventory levels, mitigate stockouts, and improve customer satisfaction. Road freight may experience variability due to congestion, weather, or driver constraints. Mastery of service reliability metrics allows logistics planners to balance cost and service performance effectively.

7. Capacity Availability and Utilization

Road freight capacity depends on fleet size, equipment type, driver availability, and infrastructure conditions. High-demand periods may result in capacity shortages and higher rates. Understanding capacity utilization helps optimize scheduling, prevent shipment delays, and reduce costs by avoiding under- or over-utilization. Logistics managers must anticipate seasonal fluctuations and network constraints to ensure consistent service.

8. Equipment Specialization

Road carriers offer specialized equipment: reefers, flatbeds, tankers, lowboys, curtain-siders, and more. Equipment type affects cargo eligibility, load safety, handling requirements, and cost. Mastering equipment availability and characteristics enables appropriate matching of cargo to vehicle type, optimizes service quality, and minimizes damage or delays. It also impacts fleet planning and contract negotiations.

9. Route Density and Network Coverage

Route density refers to the frequency and coverage of carrier operations along specific corridors. High-density

lanes offer faster, cheaper service due to frequent runs, while low-density routes may require premium pricing. Understanding network coverage and route density supports route planning, cost forecasting, and selection of carriers that maintain required service levels across all regions.

10. Pricing Structures and Tariffs

Road freight pricing varies based on shipment type, distance, weight, volume, service level, and market competition. Tariffs may be flat, mileage-based, zone-based, or contract-negotiated. Accessorial charges for liftgates, inside delivery, or detention time may apply. Understanding pricing structures helps logistics managers control costs, negotiate contracts, and choose carriers offering the best value relative to service requirements.

11. Accessorial Services

Accessorial services are optional services beyond standard pickup and delivery, such as liftgate usage, residential delivery, inside delivery, appointment scheduling, and hazardous materials handling. These services increase cost but enhance flexibility and customer satisfaction. Knowing which services are available and their impact on classification and pricing helps optimize cost-effective transport solutions.

12. Service Frequency and Scheduling

Service frequency impacts transit time, inventory levels, and supply chain responsiveness. High-frequency services enable shorter lead times and smaller shipment sizes, whereas low-frequency routes may require consolidation

and inventory buffers. Understanding frequency and scheduling trade-offs helps logistics planners balance cost, service level, and operational efficiency.

13. Driver Regulations and Hours-of-Service

Driver availability, licensing, and hours-of-service (HOS) rules affect road freight capacity and reliability. Regulations ensure safety but may introduce delays on long-haul shipments. Knowledge of HOS rules, rest requirements, and labor restrictions helps in planning routes, estimating transit times, and optimizing fleet utilization while remaining compliant.

14. Regulatory Environment

Road carriers operate under national and regional regulations affecting safety, vehicle standards, axle limits, environmental compliance, and hazardous materials transport. Regulations influence market entry, operational cost, and service capabilities. Understanding the regulatory landscape helps logistics managers select compliant carriers, avoid penalties, and plan operations efficiently.

15. Carrier Operational Strategies

Carriers adopt strategies such as hub-and-spoke networks, linehaul direct service, cross-docking, and drop-and-hook operations to maximize efficiency. These strategies affect transit time, cargo handling, equipment utilization, and cost. Mastery of operational strategies allows logistics planners to align service expectations with carrier capabilities.

16. Reliability and Risk Management

Carrier reliability is measured by on-time delivery, shipment integrity, and risk mitigation practices. Road freight is exposed to accidents, theft, delays, and mechanical failures. Understanding how carriers manage these risks—through insurance, GPS tracking, or contingency planning—helps logistics professionals reduce disruption and ensure service consistency.

17. Fleet Ownership and Management Models

Carriers may operate company-owned fleets, leased vehicles, or third-party fleets. Ownership affects flexibility, capital investment, maintenance standards, and service reliability. Knowledge of fleet management models allows logistics managers to evaluate carrier capability, scalability, and alignment with supply chain requirements.

18. Technology and Visibility

Technologies such as GPS tracking, telematics, electronic logging, and real-time status updates enhance operational efficiency, service reliability, and shipment visibility. Carriers with advanced technology provide better information for planning, exception management, and customer communication. Understanding technology adoption in the road market is critical for optimizing performance and decision-making.

19. Environmental and Sustainability Practices

Sustainability practices include route optimization, lowemission vehicles, idle reduction, and compliance with environmental regulations. These practices affect carrier selection, cost, and corporate responsibility goals. Knowledge of environmental initiatives helps logistics professionals meet green supply chain targets while selecting carriers aligned with sustainability priorities.

20. Market Trends and Competitive Dynamics

The road freight market is influenced by e-commerce growth, driver shortages, fuel price volatility, consolidation, and digital platforms connecting shippers and carriers. Understanding market trends and competitive dynamics allows logistics managers to anticipate capacity challenges, negotiate better rates, and implement strategies to maintain service reliability and cost efficiency.

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- 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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ASCM Referral Code XEFHYZ88

Certifications@Fhyzics.net +91-900-304-9000

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