

# **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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#### Reengineering

#### 1. Definition and Purpose of Reengineering

Reengineering refers to the fundamental rethinking and radical redesign of business processes to achieve dramatic improvements in critical performance measures such as cost, quality, service, and speed. In logistics and transportation, it focuses on removing inefficiencies, eliminating non–value-added activities, and transforming outdated workflows using modern techniques and technology. The goal is not incremental improvement but complete process breakthrough. CLTD candidates should understand how reengineering supports leaner supply chains, enhances competitiveness, and positions organizations to respond quickly to market changes.

## 2. Distinction Between Reengineering and Continuous Improvement

Reengineering involves radical change, whereas continuous improvement (Kaizen) focuses on incremental, ongoing enhancement. Reengineering seeks dramatic, step-change results, often requiring structural, cultural, and technological transformation. Conversely, continuous improvement keeps existing processes intact while improving their efficiency. Logistics professionals must distinguish when each approach is appropriate. In highly disrupted or underperforming logistics systems, reengineering may be necessary, while stable but inefficient operations may benefit from continuous improvement. Understanding this distinction helps prepare for strategic decision-making in CLTD scenarios.

#### 3. Business Process Mapping

Process mapping is a foundational step in reengineering. It involves documenting current processes using flowcharts, swimlane diagrams, SIPOC models, or value stream maps to visualize material, information, and decision flows. Mapping exposes bottlenecks, redundancies, delays, and handoff inefficiencies within logistics operations such as warehousing, freight management, or order fulfillment. Effective process mapping supports root-cause analysis and guides the creation of future-state streamlined processes. For CLTD professionals, this skill enhances the ability to identify improvement opportunities and design large-scale operational transformations.

#### 4. Identifying Core and Non-Core Processes

Reengineering requires understanding which logistics processes directly add value to customers and which do not. Core processes include order fulfillment, inventory deployment, transportation planning, and warehouse operations. Non-core processes include administrative activities or redundant approvals. Reengineering often focuses on simplifying or outsourcing non-core processes while optimizing or rebuilding core ones. Prioritizing processes ensures that resources and investment are targeted where they will produce the biggest improvement in performance metrics such as lead time, fill rate, or logistics cost percentage.

#### 5. Customer-Focused Process Design

Reengineering emphasizes designing processes from the customer backward. In logistics, customers expect timely delivery, accurate orders, visibility, and responsiveness.

Reengineering requires understanding customer needs, defining service-level expectations, and aligning logistics processes to meet or exceed these expectations. This may involve redesigning fulfillment workflows, transportation modes, packaging methods, or customer communication systems. CLTD candidates must understand how customercentric reengineering enhances satisfaction, reduces cycle time, and strengthens customer relationships.

#### 6. Breaking Down Functional Silos

Traditional logistics organizations often operate in rigid silos—transportation, warehousing, procurement, customer service. Reengineering promotes cross-functional integration, enabling streamlined end-to-end processes. This requires removing communication gaps, integrating information flows, and designing workflows that span multiple departments. Breaking silos enables synchronized planning, faster decision-making, and improved service delivery. For CLTD exam preparation, understanding the importance of organizational alignment is key to effective reengineering.

#### 7. Information Technology Enablement

Technology is a major enabler of reengineering. Systems such as WMS, TMS, ERP, IoT, advanced analytics, robotics, and AI help automate processes, increase visibility, and reduce manual intervention. Reengineering initiatives often involve upgrading or replacing outdated systems to support integrated digital logistics operations. CLTD candidates must understand how IT accelerates transformation, enhances data accuracy, and provides real-time insights needed for optimized transportation routes, inventory positioning, and warehouse performance. Certifications@Fhyzics.net | +91-900-304-9000

#### 8. Strategic Use of Automation and Robotics

Automation technologies—AMRs, conveyors, automated storage and retrieval systems, and robotic sorters—often play a central role in reengineering warehouse and distribution workflows. These tools help reduce labor dependency, increase throughput, improve accuracy, and optimize space utilization. Reengineering involves evaluating which processes benefit most from automation and ensuring alignment with long-term logistics strategies. Understanding automation's ROI and design considerations is important for CLTD professionals.

#### 9. Eliminating Non-Value-Added Activities

A crucial principle of reengineering is removing waste: unnecessary movement, excessive handling, redundant approvals, data duplication, or waiting time. Using lean tools such as the 8 Wastes, organizations identify and eliminate inefficiencies across transportation, warehousing, and distribution processes. This reduces operational cost, improves speed, and enhances service levels. CLTD candidates must understand how waste elimination supports major performance enhancements.

#### 10. Benchmarking for Reengineering

Benchmarking involves comparing existing logistics performance with industry leaders to identify performance gaps. Metrics may include delivery reliability, logistics cost as a percentage of sales, warehouse productivity, and transportation efficiency. Benchmarking guides reengineering objectives and ensures future-state processes align with best-in-class standards. Understanding how to use benchmarks strategically is important for navigating the

#### 11. Root-Cause Analysis

Reengineering requires deep analysis of why processes fail or underperform. Tools such as fishbone diagrams, 5 Whys, Pareto charts, and value stream analysis help identify systemic issues such as poor planning, outdated technology, unclear procedures, or training gaps. Root-cause identification ensures that redesigned processes eliminate the underlying problems, not just symptoms. CLTD candidates must master diagnostic thinking to apply reengineering effectively.

#### 12. Future-State Process Design

After analyzing current workflows, reengineering focuses on designing future-state processes that reflect maximum efficiency, integration, and customer value. These processes should be simpler, faster, less costly, and more flexible. Designing future-state processes may involve new layouts, automation, cross-training, or new routing strategies. Understanding methodology for drafting and evaluating future-state models is essential for CLTD readiness.

#### 13. Organizational Change Management

Reengineering is disruptive and often faces resistance. Change management ensures employee alignment, communication clarity, leadership support, and smooth transition. This includes training, skill development, expectation-setting, and stakeholder engagement. Preventing resistance and enabling adoption are critical for long-term success. CLTD candidates must know how change management supports reengineering initiatives.

#### 14. Human Capital and Skill Realignment

Reengineerings often changes job roles, work structures, and 7

required competencies. Logistics staff may need training in automation handling, system navigation, data analysis, or cross-functional teamwork. Workforce planning ensures the right talent is available for redesigned processes. Skill realignment helps sustain productivity and operational stability. This is central to successful long-term reengineering.

#### 15. End-to-End Supply Chain Integration

Reengineering expands beyond internal logistics operations to connect suppliers, carriers, distributors, and customers. Integrated planning, shared forecasts, real-time tracking, and collaborative platforms help achieve synchronized operations. End-to-end integration reduces errors, speeds up response times, and enhances agility. Understanding supply chain connectivity is essential for CLTD-level reengineering.

#### 16. Lean Principles in Reengineering

Although reengineering is a radical approach, it often incorporates lean principles for process simplification and flow improvement. Lean tools such as 5S, standard work, Kanban, and visual management guide the creation of streamlined logistics operations. Combining lean with reengineering amplifies gains in speed, cost reduction, and accuracy. CLTD candidates should understand how lean supports radical redesign.

#### 17. Risk Management in Reengineering

Reengineering introduces risks such as operational disruption, employee resistance, technology failure, and budget overruns. Identifying, assessing, and mitigating

these risks is essential. Scenario planning, contingency measures, and phased implementation help reduce exposure. Understanding how risk management integrates into reengineering is important for CLTD exam performance.

#### 18. Measuring Reengineering Impact

Clear KPIs must be defined to measure outcomes: lead time reduction, cost savings, inventory turnover improvement, reduced errors, improved on-time delivery, etc.

Performance measurement validates whether reengineering has delivered expected benefits.

Understanding how to design measurement frameworks and align KPIs with goals is crucial for logistics professionals.

#### 19. Piloting and Phased Implementation

Large-scale reengineering is often rolled out through pilot projects before full implementation. Piloting allows testing assumptions, validating process design, identifying issues, and refining changes. Phased implementation reduces risk, enhances organizational learning, and improves acceptance. Knowing how pilots support transformation is valuable for CLTD candidates.

#### 20. Sustainability and Continuous Optimization

Reengineered processes must be monitored to ensure long-term sustainability. This involves periodic performance reviews, adjustment mechanisms, and continuous monitoring of logistics environments. Reengineering is not a one-time event but part of an ongoing cycle of improvement. CLTD professionals should understand how sustainability safeguards transformation gains.

## 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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