

# **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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# **Enterprise Resources Planning (ERP)**

# 1. ERP as an Integrated Enterprise System

ERP is an integrated information system that connects core business functions such as procurement, inventory, production, warehousing, transportation, finance, and customer service. It centralizes data and processes into a single source of truth, enabling end-to-end visibility and standardized workflows. For logistics professionals, ERP helps synchronize supply, demand, and distribution activities, eliminating data silos. Mastery includes knowing how ERP integrates transaction processing, planning, reporting, and analytics across the entire organization. Understanding ERP's holistic role ensures efficient decision-making, reduced operational delays, and improved crossfunctional coordination.

# 2. ERP Architecture and System Components

ERP architecture consists of modules, databases, middleware, user interfaces, and data exchange frameworks. Modern architectures may be monolithic, modular, cloud-based, or hybrid. Understanding how these components interact helps planners determine how data flows across modules and how processes are automated. ERP architecture also defines system scalability, interoperability, and customization capabilities. Mastery enables users to understand how transactions move across the system, how planning data is shared, and how system reliability is maintained. This ensures ERP operates efficiently within complex logistics and distribution environments.

#### 3. Core Functional Modules in ERP

ERP systems include modules such as Materials Management, Warehouse Management, Transportation Management, Production Planning, Sales & Distribution, Finance, and Human Resources. Understanding each module's purpose—and how they interconnect—is critical for logistics practitioners. Mastery includes knowing how material movements, order processing, inventory adjustments, and financial postings flow through the system. Effective use of ERP modules enables error-free transactions, faster execution, and improved visibility across the supply chain. It also ensures compliance with organizational policies and supports integrated decision-making.

# 4. Master Data Management (MDM)

Master data includes item master, bill of materials, routing, vendor master, customer master, and location master. Accurate master data is the foundation of ERP performance, as planning and execution rely on consistent, error-free data. Poor master data leads to incorrect replenishment, inventory inaccuracies, and transaction failures. Mastery involves understanding data ownership, validation rules, governance structures, and change control processes. Knowing how to maintain high-quality master data ensures accurate planning outputs, stable system performance, and effective logistics operations.

# 5. Transactional Data and Operational Integrity

Transactional data refers to day-to-day activities such as receipts, shipments, production confirmations, sales orders, and inventory movements. ERP captures these transactions

in real time and updates inventory balances automatically. Understanding how transaction accuracy impacts planning, reporting, and customer service is essential. Errors in transactional data can propagate through MRP, DRP, financial statements, and performance metrics. Mastery includes proper transaction execution, verification, and reconciliation. This ensures system reliability and supports accurate replenishment and distribution decisions.

# 6. ERP and Supply Chain Visibility

ERP enhances visibility by providing unified data across procurement, production, distribution, and customer service. This visibility helps planners identify shortages, bottlenecks, delays, and demand shifts in real time. ERP also links operational activities with financial and performance reporting. Mastery of ERP's visibility tools enables faster decision-making, proactive problem resolution, and improved service levels. It also allows logistics leaders to coordinate across multiple locations and functions, ensuring efficient network-wide performance.

# 7. ERP Integration with Advanced Planning Systems (APS)

ERP often integrates with APS tools such as demand planning, DRP, MPS, and MRP. APS handles advanced analytics and optimization, while ERP executes transactions and maintains data. Understanding how ERP and APS exchange data ensures seamless planning and execution. Planners must know where each process is performed—for example, forecasting may occur in APS while order execution occurs in ERP. Mastery of this integration ensures efficient planning cycles, reduced stockouts, and optimized distribution performance.

# 8. ERP in Logistics and Distribution Management

ERP directly supports logistics activities including receiving, put-away, picking, packing, shipping, and freight billing. Modules such as Warehouse Management (WMS) and Transportation Management (TMS) often integrate or embed within ERP. Understanding how ERP supports logistics workflows ensures consistent execution and reduces manual errors. Mastery includes knowing how inventory accuracy, order fulfillment, and transportation performance are influenced by ERP transactions. This leads to improved service levels, reduced handling errors, and efficient warehouse operations.

# 9. ERP and Inventory Management

ERP provides real-time inventory visibility across locations, supporting reorder planning, replenishment, cycle counting, and traceability. It helps track stock status, item movement history, availability, and demand patterns. Understanding how ERP calculates inventory positions—inclusive of safety stock, lead time, and replenishment rules—is essential for logistics practitioners. Mastery ensures accurate replenishment decisions, stable DRP/MRP outputs, and improved customer service. ERP inventory tools also support ABC analysis, inventory valuation, and performance measurement.

# 10. ERP Implementation Lifecycle

ERP implementation occurs through phases: project preparation, blueprinting, configuration, data migration, testing, training, cutover, and stabilization. Understanding this lifecycle helps professionals prepare for system transitions and organizational change. Implementation

requires significant investment, cross-functional alignment, and rigorous testing. Mastery includes recognizing risk areas such as inadequate training, poor master data, and change resistance. A strong understanding of implementation phases ensures smoother adoption and a system design aligned with logistics needs.

# 11. Configuration vs. Customization

ERP systems allow configuration—adjusting system settings to meet business needs—and customization—modifying code to create new functions. Understanding the distinction is essential because customization increases cost, complexity, and upgrade difficulty. Logistics professionals must know which requirements can be met through configuration, such as setting lead times, storage locations, or picking strategies. Mastery ensures that ERP systems remain stable, cost-effective, and aligned with industry best practices without unnecessary complexity or long-term risk.

# 12. User Roles, Security, and Access Controls

ERP includes role-based security that determines system access by job function. Proper security ensures data integrity, prevents unauthorized transactions, and supports compliance. Understanding how roles, permissions, and workflow approvals operate is critical in logistics environments, where sensitive data and high-transaction volumes exist. Mastery helps maintain system reliability and reduces operational risk. It also ensures segregation of duties—important for internal controls, financial audits, and regulatory compliance.

# 13. ERP Data Analytics and Reporting

ERP provides operational and analytical reporting through dashboards, KPIs, exception reports, and ad-hoc queries. Logistics planners rely on reports for service level performance, inventory levels, order status, transportation metrics, and financial impacts. Understanding how to extract and interpret ERP reports enables data-driven decision-making. Mastery involves knowing how to use standard reports, customize dashboards, and interpret trends for continuous improvement. Strong analytical skills enhance forecasting accuracy, replenishment stability, and logistics efficiency.

#### 14. ERP and Process Standardization

ERP enforces standardized processes across sites, business units, and departments. This reduces variability, improves compliance, and enhances control over operations. Standardization ensures consistent execution of receiving, picking, inventory adjustments, purchasing, and shipment processing. Understanding how ERP drives process discipline is critical for logistics environments with multiple locations or complex operations. Mastery helps create predictable workflows, reduce errors, and improve operational efficiency.

### 15. Workflow Automation in ERP

ERP automates approval flows, document processing, replenishment triggers, warehouse tasks, and financial postings. Automation reduces manual work, improves accuracy, and accelerates operations. Logistics professionals must understand how automated workflows impact order releases, shipment execution, and inventory updates.

Mastery includes knowing how workflow rules are configured, how exceptions are handled, and how automation can be expanded. This contributes to reduced lead times, fewer errors, and improved planning responsiveness.

# 16. ERP and Financial Integration

ERP tightly links operational activities with financial transactions. Every receipt, shipment, production order, or adjustment updates the general ledger. Understanding this integration is essential because logistics decisions directly affect revenue recognition, cost allocation, freight expenses, and inventory valuation. Mastery ensures that operational actions accurately reflect in financial reporting, supporting compliance and cost control. It also helps logistics professionals understand financial implications of decisions such as order splitting, expedited shipping, or inventory disposals.

#### 17. Cloud ERP vs. On-Premise ERP

Organizations must choose between cloud-based, onpremise, or hybrid ERP systems. Cloud ERP offers scalability, lower upfront cost, automatic updates, and remote accessibility. On-premise systems provide greater control, customization, and internal security. Understanding these differences is essential for long-term planning, cost management, and IT investment. Mastery includes knowing how deployment model impacts system performance, integration, security, and logistics workflows. This ensures ERP strategy aligns with business goals and operational needs.

### 18. ERP Change Management and User Adoption

Successful ERP usage depends heavily on user training, communication, and willingness to adopt standardized processes. Change management addresses resistance, skill gaps, and behaviors that affect system success. Understanding how to support user adoption reduces transaction errors and enhances planning accuracy. Mastery includes training design, user testing, documentation, and continuous support. This ensures the ERP system is fully leveraged and not undermined by improper use or lack of understanding.

# 19. ERP Performance Metrics and KPI Tracking

ERP enables monitoring of operational KPIs such as order cycle time, fill rate, inventory turnover, warehouse productivity, financial accuracy, and transportation cost. Understanding how to define, measure, and analyze these KPIs supports continuous improvement and better decision-making. ERP-driven metrics increase accountability and help identify root causes of operational issues. Mastery ensures logistics leaders can evaluate performance effectively and align outcomes with strategic goals.

# 20. Future Trends in ERP: AI, IoT, RPA, and Analytics

Modern ERP systems integrate advanced technologies such as artificial intelligence, machine learning, IoT sensors, blockchain, and robotic process automation. These innovations enable predictive planning, real-time visibility, automated decision-making, and enhanced accuracy. Understanding emerging capabilities helps logistics professionals future-proof their skills and optimize

operations. Mastery ensures organizations can leverage these tools to improve forecasting, reduce manual work, optimize routes, and enhance supply chain agility.

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# 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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