

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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Sustainability in the Supply Chain

1. Definition and Scope of Supply Chain Sustainability

Supply chain sustainability refers to managing environmental, social, and economic impacts across all stages of the supply chain. It involves integrating responsible sourcing, reducing emissions, improving labor conditions, and ensuring long-term resilience. For CLTD, you must understand how sustainability influences logistics decisions, customer expectations, cost structures, and competitive advantage. Sustainable supply chains aim to balance efficiency with environmental stewardship and social responsibility.

2. Triple Bottom Line (People, Planet, Profit)

The Triple Bottom Line is the core framework for evaluating sustainability programs. "People" covers labor standards, worker safety, and community well-being. "Planet" focuses on environmental impacts—including emissions, waste, and resource consumption. "Profit" ensures financial viability and long-term operational efficiency. Logistics professionals use TBL to guide decisions involving transportation mode changes, facility designs, material choices, and vendor selection to create value without compromising sustainability performance.

3. Environmental Regulations and Compliance

Supply chains must comply with environmental regulations such as emissions standards, hazardous material rules, waste disposal requirements, and international agreements. Compliance reduces legal risks, improves public reputation, and ensures safe operations. Logistics managers must

recognize how environmental laws affect routing, documentation, packaging, product design, and fleet management. Understanding regulatory frame works supports proactive planning and minimizes disruptions.

4. Carbon Footprint Measurement

Carbon footprint measurement involves quantifying greenhouse gas emissions from transportation, warehousing, packaging, and corporate activities. Tools such as lifecycle analysis and GHG Protocol allow companies to track Scope 1, 2, and 3 emissions. Measuring emissions helps identify improvement opportunities, benchmark performance, and meet customer and investor reporting expectations. Carbon accounting is essential for meeting sustainability commitments and regulatory demands.

5. Energy Efficiency in Logistics

Energy efficiency focuses on reducing energy consumption across supply chain operations. Strategies include optimizing fleet maintenance, using energy-efficient warehouse systems, implementing LED lighting, leveraging solar power, improving insulation, and adopting electric forklifts. Route optimization and consolidated shipments also reduce fuel use. Improving energy efficiency leads to lower operating costs, reduced emissions, and stronger sustainability scores.

6. Sustainable Transportation Strategies

Sustainable transportation aims to minimize environmental impact while maintaining service levels. Practices include shifting from road to intermodal or rail, using electric or

hybrid vehicles, optimizing load utilization, reducing empty miles, and implementing eco-driving programs. Companies adopt telematics and predictive analytics to monitor fuel consumption and emissions. These strategies reduce operating costs, improve regulatory compliance, and enhance customer trust.

7. Green Warehousing

Green warehousing integrates sustainable practices in facility design, layout, equipment usage, and operations. Examples include using renewable energy, incorporating skylights, installing smart HVAC systems, recycling materials, and minimizing idle time for equipment. Green warehouses also track waste generation and energy usage to ensure continuous improvement. Eco-friendly design strengthens brand reputation and supports operational efficiency.

8. Circular Economy Principles

The circular economy shifts supply chains from a linear "take-make-dispose" model to one focused on reuse, repair, recycling, and resource recovery. Logistics plays a key role by supporting reverse flows, refurbishing programs, and closed-loop systems. Companies adopt circular principles to reduce waste, lower costs, and create new business opportunities through sustainable product lifecycles.

9. Reverse Logistics and Returns Management

Reverse logistics manages product returns, repairs, recycling, disposal, and remanufacturing activities. It supports sustainability by minimizing landfill waste, promoting reuse, and recovering valuable materials.

Efficient reverse logistics systems rely on tracking technologies, effective return policies, skilled partners, and clear customer communication. This concept is essential for sustainability reporting and operational efficiency.

10. Sustainable Packaging

Sustainable packaging focuses on reducing material usage, improving recyclability, and minimizing waste. Strategies include right-sized packaging, biodegradable materials, reusable containers, and pallet optimization. Packaging choices affect transportation efficiency, cost, and environmental impact. For CLTD, understanding how packaging contributes to emissions and waste reduction is crucial for designing sustainable supply chains.

11. Supplier Sustainability and ESG Evaluation

Organizations evaluate suppliers using ESG (Environmental, Social, Governance) criteria to ensure alignment with sustainability goals. Criteria include emissions performance, waste management, labor practices, ethical sourcing, and regulatory compliance. Supplier scorecards, audits, and certifications such as ISO 14001 strengthen transparency and risk management. Strong ESG programs build resilient and responsible supply chains.

12. Ethical Sourcing and Responsible Procurement

Ethical sourcing ensures that materials and products come from suppliers who adhere to environmental, labor, and human rights standards. Procurement teams establish policies, conduct audits, and track performance to ensure compliance. Ethical sourcing enhances brand reputation, reduces risks, and supports long-term sustainability. It is

essential for companies operating global supply chains with diverse suppliers.

13. Water, Waste, and Resource Management

Effective sustainability practices require managing water consumption, reducing waste streams, and optimizing resource usage. Techniques include recycling water, reducing packaging waste, adopting lean practices, and reusing materials. Monitoring tools help track usage and identify improvement opportunities. Resource management supports environmental goals while improving cost efficiency.

14. Green Building Standards for Logistics Facilities

Standards such as LEED (Leadership in Energy and Environmental Design) guide sustainable facility design. These standards promote efficient lighting, natural ventilation, water conservation, solar energy, and sustainable construction materials. Logistics facilities built to green specifications have lower operating costs and stronger environmental performance. Understanding these standards helps logistics professionals support sustainable network design.

15. Sustainable Inventory Management

Sustainable inventory practices focus on reducing waste, avoiding obsolescence, and optimizing stock levels to minimize environmental impact. Techniques include demand forecasting, SKU rationalization, improved inventory visibility, and better shelf-life management. These practices help reduce disposal costs, minimize storage needs, and support sustainability reporting.

16. Life Cycle Assessment (LCA)

Life Cycle Assessment evaluates the environmental impact of a product from raw material extraction to disposal. LCA helps companies understand energy consumption, emissions, and waste generated throughout the supply chain. It supports decision-making related to sourcing, packaging, facility design, and transportation. LCA is an essential tool for sustainability strategy development.

17. Social Responsibility and Labor Standards

Supply chain sustainability includes ensuring safe working conditions, fair wages, diversity, equity, and compliance with international labor standards. Organizations implement social audits, supplier codes of conduct, and training programs. Social responsibility protects worker welfare, reduces reputational risk, and supports ethical business practices across global networks.

18. Technology for Sustainable Supply Chains

Technology such as IoT sensors, AI analytics, telematics, TMS/WMS systems, and blockchain enables monitoring, visibility, and optimization of sustainability metrics. These tools enhance route efficiency, track emissions, improve reporting accuracy, and support real-time decision-making. Technology is a critical enabler of modern sustainability strategies.

19. Renewable Energy in Logistics Operations

Logistics companies increasingly adopt renewable energy sources such as solar, wind, and biofuels. Warehouses incorporate rooftop solar systems, electric vehicle charging stations, and energy storage solutions. Renewable energy reduces carbon footprint and ensures long-term cost stability. Understanding these solutions is crucial for sustainable logistics facility planning.

20. Sustainability Reporting and Performance Metrics
Sustainability reporting involves tracking and
communicating environmental, social, and economic
performance. Key metrics include carbon emissions, energy
use, recycling rates, water usage, and worker safety
indicators. Standards such as GRI and CDP guide reporting
practices. Transparent reporting strengthens compliance,
supports investor expectations, and drives continuous
improvement.

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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