

Certified international supply chain manager

Course Curriculum

Fundamental principles of Logistics and Supply Chain Management

- Evolution of Supply Chain
- Logistics and Supply Chain
- Objectives of Supply Chain Management
- Stakeholders in a Supply Chain
- Challenges in Supply Chain Management

Demand Planning and Forecasting

- Dependent and Independent demand systems
- MRP, MRP-II, ERP
- Demand planning
- Demand patterns – random, trend and seasonality components
- Qualitative and quantitative forecasting techniques
- Accuracy of Forecasting models

Procurement in Supply Chain

- The Procurement Process
- Principles of procurement
- Objectives of procurement
- The Sourcing processes
- Negotiation
- Total Cost of Ownership

Transportation Planning and Management

- The role of transportation in Supply Chain
- Modes of transportation
- Hybrid modes
- Transportation cost optimization
- Freight forwarding

Warehousing strategies

- Warehouse design and layout
- Material handling equipment
- Warehouse functions
- Unitization
- Distribution centres and cross docking
- Automation in warehousing

Inventory Management

- Fundamentals of Inventory Management
- Types of Inventories
- Costs Associated with Inventory
- Economic Order Quantity (EOQ)
- Selective Inventory Control Techniques like ABC, VED, FSN etc.
- Inventory costing techniques – FIFO, LIFO, Weighted Average etc.

INCOTERMS 2020

- International trade
- Role of the International Chamber of Commerce
- INCOTERMS 2020
- The connotation of each INCOTERMS rule
- Multimodal versus Sea/Inland Waterway Incoterms

Trade Payments Methods

- International trade payments
- Clean Payments
- Documentary Payments
- UCP 600 and Letter of Credit
- LC opening and working cycles
- Types of LC
- Trade documents – bill of exchange, Commercial Invoice, Bill of Lading etc.

Supply Chain Strategies

- Supply chain design
- Supply Chain strategies and their impact
- Supply chain and competitiveness
- Lean versus Agile Supply Chains
- Supply Chain outsourcing

Managing Partnerships in Supply Chain

- Supply Chain Coordination
- Bullwhip Effect
- Vendor Managed Inventories
- Just-in-time and Kanban
- Quick Response
- Collaborative Planning, Forecasting and Replenishment (CPFR)

Risk Management in Supply Chain

- Impacts of Supply Chain disruption
- Risks associated with Supply Chain
- Classification of risks
- Risk assessment

- Risk management

Sustainability in Supply Chain

- Concept of Sustainability
- Understanding Triple Bottom Line
- Green Supply Chain
- Reverse Logistics in Supply Chain
- Sustainable Supply Chain

Supply Chain Excellence

- Basic concepts of Quality
- Cost of Quality
- Kaizen and 5S
- Six Sigma
- Lean

Emerging Technology and Supply Chain

- Future trends in Supply Chain Management
- Block Chain
- Big data
- Artificial Intelligence
- Internet of Things
- Machine Learning