

Logistics and Supply Chain Management

Course Duration: 8 hours

Course Overview:

This course provides a comprehensive understanding of key logistics and supply chain management principles. It covers fundamental concepts such as capacity planning, inventory management, logistic network design, and reverse logistics, along with modern approaches to risk mitigation and technology integration. Through interactive case studies, simulations, and group discussions, participants will gain practical insights into optimizing supply chain efficiency, managing risks, and leveraging technology for better decision-making.

Target Audience:

This course is designed for professionals involved in supply chain, logistics, and operations management. It is ideal for supply chain managers, logistics coordinators, procurement specialists, business analysts, and professionals seeking to enhance their understanding of supply chain optimization, risk management, and technological advancements. The course is also suitable for business leaders aiming to improve supply chain resilience and efficiency.

Training Methodology:

Participant Involvement: We will introduce regular opportunities for participant involvement, including discussions, feedback sessions, and reflection exercises, to ensure that the training remains interactive and relevant to their needs.

Module 1: Logistics and Supply Chain Overview (2 hours)

Session 1: Introduction to Logistics and Supply Chain Management (30 minutes)

- Definition and Importance of Logistics and Supply Chain Management
- Key Components and Functions of Supply Chains

Session 2: Case Study: Optimizing Supply Chain Efficiency (1 hour)

- Presentation of a case study on a real-life supply chain optimization scenario
- Group discussion and analysis of challenges faced and potential solutions

Session 3: Interactive Activity: Capacity Planning and Demand Management Simulation (30 minutes)

- Participants engage in a simulation exercise to understand the principles of capacity planning and demand management
 - Teams collaborate to make decisions related to capacity planning and managing demand fluctuations
-

Module 2: Capacity Planning and Demand Management (2 hours)

Session 1: Understanding Capacity Planning (1 hour)

- Definition and Objectives of Capacity Planning
- Methods for Capacity Planning: Resource-Based and Demand-Based Approaches

Session 2: Case Study: Optimizing Production Capacity (1 hour)

- Presentation of a case study on capacity planning and management in manufacturing
 - Group discussion on strategies for optimizing production capacity to meet demand fluctuations
-

Module 3: Inventory Management and Deployment (1 hour)

Session 1: Deployed Management Strategies (1 hour)

- Overview of Deployed Management in Supply Chain Operations
 - Techniques for Optimizing Inventory Deployment and Distribution
-

Module 4: Logistic Network Design (1 hour, 30 minutes)

Session 1: Principles of Logistic Network Design (1 hour)

- Key Considerations in Logistic Network Design: Cost, Service, and Flexibility
- Strategies for Designing an Efficient and Responsive Logistic Network

Session 2: Case Study: Redesigning Logistic Network (30 minutes)

- Presentation of a case study on redesigning a logistic network for improved efficiency
 - Group discussion on challenges and solutions for optimizing logistic network design
-

Module 5: Reverse Logistics and Sustainability (30 minutes)

Session 1: Introduction to Reverse Logistics and Sustainability (15 minutes)

- Definition and Importance of Reverse Logistics
- Role of Sustainability in Supply Chain Operations

Session 2: Case Study: Implementing Sustainable Reverse Logistics Practices (15 minutes)

- Presentation of a case study on implementing sustainable reverse logistics practices
 - Group discussion on the environmental and economic benefits of sustainable reverse logistics initiatives
-

Module 6: Risk Mitigation and Technology Use in Supply Chain (1 hour)

Session 1: Identifying and Mitigating Risks in Supply Chains (30 minutes)

- Types of Risks in Supply Chains: Operational, Financial, Geopolitical, and Environmental
- Strategies for Risk Mitigation: Diversification, Resilience Planning, and Contingency Strategies

Session 2: Leveraging Technology for Risk Management (30 minutes)

- RFID, BAR CODING & METRICS TO Enhancing Supply Chain Visibility
- Case Study: Implementing Technology to Mitigate Supply Chain Disruptions
- Group discussion on how organizations can integrate technology to strengthen risk management strategies