



## **Logistics And Distribution Management**

**Course Venue:** UK - London

**Course Date:** From 1 Aug 2021 To 26 Aug 2021

**Course Place:** London Paddington

**Course Fees:** 23800 GBP



## **Objectives**

### **On completion of this course you should be able to:**

- Gain a broad knowledge of supply chain segmentation, air transport, maritime transport and outsourcing, there is detailed
- Discuss the latest trends and issues that confront logistics in details.
- Improve service and reduce cost, as well as recognize the many different facets of logistics and the supply chain.
- Understand various issues on logistics and distribution; planning and logistics; procurement and inventory decisions
- Explain the concepts of warehousing and storage, freight transport and operational management.

## **Course Outline**

### **Module 1: Concepts Of Logistics And Distribution**

#### **Introduction To Logistics And Distribution**

- Scope and definition
- Historical perspective
- Importance of logistics and distribution
- Logistics and supply chain structure

#### **Integrated Logistics And The Supply Chain**

- The total logistics concept
- Planning for logistics
- The financial impact of logistics
- Globalization and integration
- Integrated systems
- Competitive advantage through logistics
- Logistics and supply chain management

#### **Customer Service And Logistics**

- The importance of customer service
- The components of customer service
- Two conceptual models of service quality
- Developing a customer service policy
- Levels of customer service
- Measuring customer service
- The customer service explosion

#### **Channels Of Distribution**

- Physical distribution channel types and structures
- Channel selection
- Outsourcing channels

#### **Key Issues And Challenges For Logistics And The Supply Chain**



- The external environment
- Manufacturing and supply
- Logistics and distribution
- Retailing
- The consumer

## **Module 2: Planning For Logistics**

### **Planning Framework For Logistics**

- Pressures for change
- Strategic planning overview
- Logistics design strategy
- Product characteristics
- The product life cycle
- Packaging
- Unit loads

### **Logistics Processes**

- The importance of logistics processes
- Logistics process types and categories
- Approach
- Tools and techniques

### **Supply Chain Segmentation**

- Product segmentation
- Demand and supply segmentation
- Marketing segmentation
- Combined segmentation frameworks
- Implementation

### **Logistics Network Planning**

- The role of distribution centers and warehouses
- Cost relationships
- A planned approach or methodology
- Initial analysis and option definition
- Logistics modeling: logistics option analysis
- Evaluate results: matching logistics strategy to business strategy
- Practical considerations for site search

### **Logistics Management And Organization**

- Relationships with other corporate functions
- Logistics organizational structures
- Organizational integration
- The role of the logistics or distribution manager
- Payment schemes
- The selection of temporary staff and assets

### **Multichannel Fulfillment**

- Issues



- Food retailing
- Non-food retailing

## **Manufacturing Logistics**

- Typology of operations
- Just-in-time
- Manufacturing resource planning (MRP II)
- Material requirements planning (MRP)
- The MRP system
- Flexible fulfillment (postponement)
- The effects of distribution activities
- Future developments

## **Module 3: Procurement And Inventory Decisions**

### **Basic Inventory Planning And Management**

- The need to hold stocks
- Types of stockholding/ inventory
- Stockholding policy implications for other logistics functions
- Inventory costs
- Reasons for rising inventory costs
- Inventory replenishment systems
- The reorder point and safety stock
- The bullwhip effect
- The economic order quantity
- Demand forecasting

### **Inventory And The Supply Chain**

- Problems with traditional approaches to inventory planning
- Different inventory requirements and the 'decoupling point'
- The lead-time gap
- Inventory and time
- Analyzing time and inventory
- Inventory planning for manufacturing
- Inventory planning for retailing

### **Procurement And Supply**

- The procurement cycle
- The scope of procurement
- Setting the procurement objectives
- Managing the suppliers
- Expediting
- Procurement performance measures
- Collaborative planning, forecasting and replenishment
- Factory gate pricing
- E-procurement
- Corruption

## **Module 4: Warehousing And Storage**

### **Principles Of Warehousing**



- The role of warehouses
- Strategic issues affecting warehousing
- Warehouse operations
- Costs
- Packaging and unit loads

### **Storage And Handling Systems (Palletized)**

- Pallet movement
- Pallet stacking
- Palletized storage
- Palletized storage - comparison of systems

### **Storage And Handling Systems (Non-Palletized)**

- Small item storage systems
- Truck attachments
- Long loads
- Cranes
- Conveyors
- Automated guided vehicles
- Hanging garment systems

### **Order Picking And Packing**

- Order picking concepts
- Order picking equipment
- Sortation
- Picking area layout
- Slotting
- Pick routes
- Information in order picking
- E-fulfillment
- Picking productivity
- Replenishment
- Packing

### **Receiving And Dispatch**

- Receiving processes
- Dispatch processes
- Cross-docking
- Returned goods
- Receiving and dispatch equipment
- Layouts

### **Warehouse Design**

- Design procedure

### **Warehouse Management And Information**

- Operational management
- Performance monitoring
- Information technology



- Data capture and transmission
- Radio data communication
- Truck management

## **Module 5: Freight Transport**

### **International Logistics: Modal Choice**

- Relative importance of the main modes of freight transport
- Method of selection
- Operational factors
- Transport mode characteristics
- Consignment factors
- Cost and service requirements
- Aspects of international trade

### **Maritime Transport**

- Structure of the industry
- Common shipping terms
- Surcharges
- Documentation
- Vessel classification
- Common ship types and their cargoes
- Ports and cargo handling
- Other factors

### **Air Transport**

- Structure of the industry
- Air cargo handling
- Types of air freighter
- Documentation
- Air hubs and spokes
- Air freight pricing
- Air cargo security

### **Rail And Intermodal Transport**

- Intermodal equipment
- Intermodal vehicles
- Intermodal infrastructure
- Mode shift grant schemes
- Rail transport

### **Road Freight Transport: Vehicle Selection**

- Main vehicle types
- Types of operation
- Load types and characteristics
- Main types of vehicle body
- The wider implications of vehicle selection
- Vehicle acquisition

### **Road Freight Transport: Vehicle Costing**



- Reasons for road freight transport vehicle costing
- Key aspects of road transport costing
- Vehicle standing costs
- Vehicle running costs
- Overhead costs
- Costing the total transport operation
- Whole life costing
- Vehicle cost comparisons
- Zero-based budgets

### **Road Freight Transport: Planning And Resourcing**

- Need for planning
- Fleet management
- Main types of road freight transport
- Transport resources: requirements and optimization
- Vehicle routeing and scheduling issues
- Manual methods of vehicle routeing and scheduling
- Computer routeing and scheduling
- Other road-freight transport information systems applications

### **Module 6: Operational Management**

#### **Cost And Performance Monitoring**

- Why monitor?
- Different approaches to cost and performance monitoring
- What to measure against?
- A logistics operational planning and control system
- Good practice
- Influencing factors
- Detailed metrics and KPIs
- The presentation of metrics

#### **Benchmarking**

- Why should an organization engage in benchmarking?
- How to conduct a benchmarking exercise
- Formal benchmarking systems
- Benchmarking distribution operations

#### **Information And Communication Technology In The Supply Chain**

- Basic communication
- Supply chain planning
- Warehousing
- Inventory
- Transport
- Other applications
- Trading using the internet - E-Commerce

#### **Outsourcing: Services And Decision Criteria**

- Outsourcing operations
- Different service types



- Value added services
- Drivers and drawbacks of outsourcing
- What are the critical factors of choice?

### **Outsourcing: The Selection Process**

- Approach
- Detailed steps

### **Outsourcing Management**

- The need for management
- Managing the relationship
- Implementation planning
- Monitoring an outsourced logistics operation

### **Security And Safety In Distribution**

- International security measures
- Strategic security measures
- Tactical security measures
- Safety in the distribution centre and warehouse

### **Logistics And The Environment**

- The European Union and environmental legislation
- Logistics and environmental best practice
- Alternative fuels

### **Humanitarian Logistics**

- Key differences
- Performance measurement
- Key terms
- Pre-positioning of resources
- Assessment and planning
- The cluster approach
- Distribution