



## A Diploma in Logistics Operations

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# A Diploma in Logistics Operations

## Introduction:

Today's logistics managers operate in a demanding environment and are charged with streamlining the many and complex activities that provide organizations with the essential materials and services to accomplish their missions, frequently controlling material flows moving in multiple directions across many countries and regions. They must know how to balance cost, effectiveness and risk to fulfill the demands of their organization's supply chain and deliver the required customer service levels. All of this takes place against the backdrop of the larger economic and social forces shaping consumption, production and distribution trends across the globe. This course provides a thorough grounding in the major disciplines of logistics management.

## Who Should Attend?

Transport, logistics and supply chain professionals, Suppliers, manufacturers, distributors and retailers, Freight transport users throughout the supply chain, Operators such as freight forwarders and consolidators, Employees seeking career enhancement

## Course Objectives:

**By the end of this course delegates will be able to:**

The candidates will be fully aware of the whole operations of logistics and supply chain

## Course Outline:

### **Integrated Global Supply Chain and Logistics Management**

- Introduction to supply chain and logistics management

- Current supply chain strategies
- Customer service and logistics
- Channels of distribution
- Planning framework for logistics
- Logistics management and organization

#### **Inventory Management Supply Chains**

- Inventory flows and supply chains
- Forms of inventory and their role
- Inventory as buffer islands in a supply stream
- Demand amplification and distortion
- Setting and measuring the effectiveness of inventory
- Planning and forecasting
- Collaborative approaches to optimization

#### **Outsourcing Trends and Best Practice**

- Outsourcing operations and services
- Value added services
- Key drivers for outsourcing
- The selection process
- Outsourcing management
- Managing the 3PL relationship
- Detailed metrics and Key Performance Indicators (KPIs)

#### **Finance, Costing and Financial Control**

- Finance
- Types of finance debt, equity and others
- Return on capital employed
- Leasing and the difference between finance and operating leases
- The influence of logistics on shareholder value
- Accounting

- Costing
- Budgeting
- Working capital and the supply chain
- The cost of stockholding/inventory and how the supply chain can reduce this
- The cost of credit
- Management of working capital
- Capital project appraisal
- Commercial and financial evaluations
- Return on investment (ROI)
- Payback periods
- Ratio Analysis

#### **Logistics Contracts**

- Background law
- Bailment and licenses
- Introduction to agents and principles
- Standard conditions
- International conventions
- Logistics risks and insurance
- Liability - value added services
- Risk management tools
- Third and fourth party logistics solutions
- Agents and principals
- Determining contractual capacity
- Liability
- What are 3PL and 4PL solutions and risk profile
- When to use a tailor-made contract
- Standard conditions

- Special agreements
- Key commercial clauses
- The tender process
- Negotiation techniques
- **Contract management**

#### **Freight Transport Industry - Introduction and Development**

- Economics, environment and policy
- Effect of trade deregulation on industrial development
- Global sourcing, industry relocation and its impact on transportation requirement
- Globalization and energy efficiency
- The environment and CO2 emissions
- The World Trade Organization process and quota regimes
- Legislation, authorities and the regulatory environment
- Issues

#### **Freight Transport Industry - Road, Rail, Air and Sea Transport**

- Transport characteristics
- Road
- Rail
- Air
- Sea
- Pressures on the industry
- Social
- Security
- Environmental
- Forecasting transportation demand
- Port and terminal capacity
- Current and future trends

## **Warehouse and Distribution Centre Design**

- Outsourcing of warehouse operations
- Warehouse location planning
- Operations - order picking
- Operations - packaging
- Warehouse design and fittings
- Storage systems -manual and automated
- Combined storage and order fulfillment systems
- Sortation systems
- Warehouse layouts and material flow
- Control systems
- The green influence
- Building and utilities
- Storage
- Material handling
- Monitoring overall energy and carbon usage
- Distribution transport
- Waste management
- e-fulfillment (B2C)

## **Key Issues for Global Supply Chain and Logistics Management**

- Developments impacting on the supply chain
- Logistics processes
- Logistics network planning
- Inventory and the integrated supply chain
- Problems with traditional approaches to inventory planning
- New inventory requirements
- The lead-time gap
- Inventory and time

- Inventory planning for manufacturing
- Inventory planning for retailing
- Logistics and the environment
- Best practice
- Reverse logistics

#### **Information Communications Technology and Supply Chains**

- Supply chain and IT strategy
- The role of supply chain systems in business change
- Transaction systems
- Planning systems
- Data analysis and reporting
- ASP, outsourcing and security
- Transport management systems
- Supply co-ordination and warehousing systems
- Implementation
- IT and process mapping tool

#### **Performance Measurement and Improvement - Optimization Strategies**

- Background to logistics and supply chain management
- Modelling techniques in logistics and supply chain management
- Review of logistics and supply chain performance indicators
- Analytical performance and benchmarking techniques
- Current issues in supply chain performance and optimization