



# **International Diploma**

## **in**

# **Logistics, Materials & Supply Chain Management**

This great Program provides tuition on the wide range of activities involved in modern logistics, materials handling and supply chain management, including: physical distribution, materials management, transportation, facilitating, customer service, procurement, order processing, purchasing, warehousing, inventory control, order picking and marshalling, packing and dispatch and logistics project management.



The Program focuses on planning, organising and controlling Logistics, Materials & Supply Chain Management activities - key elements for successful management in any enterprise - and it covers strategic planning and decision-making as an important part of the management process. The Program is ideal for managers and personnel of all levels who are involved in logistics activities or in ensuring that products and services are made available to customers (or clients or intended recipients) at the time and place, and in the condition and form desired, in an efficient, profitable and cost-effective way. It also includes special and unique sections on Reverse Logistics, and on Humanitarian, Aid & Disaster Relief Logistics.

## **Course Outline**

### **Module 1 - Logistics and Supply Chains, Value and Value Chains**

- The beginnings of trade and the need for the movement of people and products
- Historical developments, the development of infrastructure
- Differences and relationships of logistics and supply chains, supply partners and networks
- Value and value chains

### **Module 2 - Logistics and Supply Chain Strategy**

- Understanding supply and demand, business models, economies of scale, the business life cycle
- Corporate and business strategy, customer value and customer service strategy
- Supply chain strategy, push and pull strategies, value added functions of supply chains
- Developing logistics strategy, cost and risk factors

### **Module 3 - The Relationship Between Marketing and Logistics**

- Relevance of the 4Ps to marketing logistics, the importance of customer value
- Order cycle times and stages, measuring customer service, customer retention
- Consequences of stockouts, the Pareto Principle, the classification of stock/inventory items
- Market driven supply chains, market segmentation

### **Module 4 - Industrial and consumer products**

- The product life cycle, logistics strategies for each stage
- Product characteristics, dimensions, weight, volume, values, substitutability, risk characteristics
- Product packing and packaging materials
- Product pricing, policies, constraints and strategies, incentive pricing, quantity discounts

## **Module 5 - Sourcing and Procurement**

- Supplies and suppliers, principles of sourcing, supplier appraisal, partnership sourcing
- Procurement and purchasing objectives for continuous operations, continuity of supply
- Procurement strategies for manufacturing, distributive and service-providing organizations
- Economic order quantity, documents used in procurement and purchasing

## **Module 6 - Receipt and Storage of Stock/Inventory**

- Receiving procedures, quality inspections, sources of incoming consignments, documentation
- The storage and control of stock/inventory, storage systems, economy of movement, palletisation
- Storage equipment, manual and mechanised materials handling
- Functions of warehouses, location, layout and design, floors, doors, lighting, security

## **Module 7 - Stock/Inventory Control, Order Processing and Issuing**

- Stock/inventory control, identification, prevention of fire, theft, pilfering, fraud and damage
- Common stock levels set, their purposes and control
- Issues of stock/inventory to users or customers, authorisation, control and documentation
- Order processing or fulfillment, order preparation, picking and marshalling, packing and despatching

## **Module 8 - Transportation**

- Considerations in selecting modes of transportation: road, rail, water, air, pipeline.
- Duties of freight forwarders, why they are used, freight handling
- Unit loads and palletisation, containerisation: advantages, bulk freight and groupage
- Intermodal transportation, piggy-back rail-truck, own vehicle fleet operation considerations

## **Module 9 - Operations Management**

- Role of operations management in supply chains, product design and development
- Production strategies, levels, planning, control; product range, mix, specialisation and diversification Methods of production: job, batch, flow
- Inspections and quality control, work study and work measurement, quality assurance

## **Module 10 - Lean Logistics and Supply Chain Management**

- Lean principles and lean thinking in logistics and supply chain management, reducing wastes
- Just-in-time and the kanban, pull demand driven supply systems
- One- and two-tier suppliers, agile supply chains, linear and parallel processing
- Supplier relationships, buyers and sellers' markets, partnership sourcing methodology

## **Module 11 - Facility and Site Location**

- The importance of facility location for trading, distributive, service-providing businesses
- Distribution centres, locations and purposes, factory and plant facility location, warehouse location
- Reverse logistics, returns, defective products, liability laws, product recall, outsourcing logistics
- Reverse logistics in eCommerce, avoiding losses and damages in transit, insurance

## **Module 12 - Project Management, Disaster Management and Humanitarian Aid & Relief**

- Project management, activities, project teams; industrial, commercial and humanitarian projects
- Primary project objectives, focus, scope, specifications, quality/cost relationship
- Emergency planning and disaster/emergency management, humanitarian logistics
- Communication and incident assessment, rapid action, considerations, mobilization

