

logistics and supply chain management

Course objectives

At the end of this Logistics and Supply Chain Management course, you will be able to:

- Conducting the procurement cycle and building successful partnerships with suppliers
- Calculate the production plan and ending inventory for different periods
- Decide when to order materials and in what quantity to reduce costs and optimize capital
- Connecting the basic aspects of logistics network design (distribution planning and distribution channel design)
- Define performance indicators specific to the business type and industry to monitor and improve logistics and supply chain services

Course Outline:

Introduction to supply chain

- Basic definitions
- Types of supply chains
- Supply chain activities: strategic, tactical and operational
- Coordinating organizational units and integrating information flows along the supply chain
- Risks in the supply chain

Demand management and planning

- Match supply and demand
- Demand management process
- Demand forecasting methods and techniques

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- Sales and Operations Planning S&OP
- Master scheduling
- Material Requirements Planning MRP
- Scheduling and implementation

Purchasing and managing inventory

- shopping
- Supplier selection and contracting
- Supplier management
- Manage inventory as a single unit
- Inventory costs
- Inventory policies and controls
- Quantities and resource request systems

Logistics and distribution operations

- Transport, logistics and distribution strategies
- Distribution planning
- Distribution channel design
- Transportation management
- Store Management

Performance monitoring and improvement

- Technology in supply chain and logistics management
- Supply chain management systems ERP, WMS, and TMS systems
- Supply chain data analysis
- Total Quality Management TQM

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- LEAN waste reduction philosophy and continuous improvement techniques
- Define KPI's
- Monitor the performance of supply chain operations

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