DIPLOMA IN

SUPPLY CHAIN AND LOGISTICS MANAGEMENT

Module 1: SUPPLY CHAIN MANAGEMENT AND RELATED DISCIPLINES

OBJECTIVE:

The participants will acquire essential know-how for working in the field of Supply Chain Management. This know-how is based on the basic concepts of supply chain management.

COURSE CONTENTS:-

S. No	Topic	Sub - Topic
1	**Introduction to Supply Chain Management**	• History, Definition, importance, objective, types of SCM. • Current issues in supply chain management • Supply chain challenges for future • Exercises for students- create examples of supply chain management systems by taking any company or industry of your choice.
2	**Purchasing and SCM**	• Introduction, importance, objectives, process. • Types of purchase, supplier selection. • Sourcing decision in Supply chain Management
3	**Material , spare part management and SCM**	• Introduction of Material management • Effective management of spare parts. **MATERIAL HANDLING** • Objective • Principles • Equipments • Problems and issues related to material handling • Advantages of having systematic material handing system
4	**Vendor Management and Partnerships**	• Importance, supplier collaboration. • Supplier Management and types- traditional supplier management, emerging supplier management, leading supplier management, world class supplier management. • Supplier Management Process. • Supplier Relationship management, supplier development. • Key supplier account management.
5	**Introduction to Logistics Management**	• History and Evolution • Definition, Role, Framework, elements. • Third Party and Fourth Party Logistics
6	**Performance Management and SCM**	• Advantages and benefits of PM. • Measuring SCM • Supplier PM • Parameters for choosing which suppliers to measure • SCOR Model • Balance score card approach

7	**Operations Management for SCM**	• Introduction, Overview. • Materials Requirements planning, Optimized production Technology, JIT. • Aggregate planning. • Production scheduling, shop floor control.
9	**IT and Supply Chain Management**	• how the Internet has changed traditional supply chain flows • Define a framework for major business benefits from Internet-enabled supply chains • Review examples of how companies have used the Internet in their supply chain operations • Decision Support System • Warehouse Management System • Supply chain configuration for E-business

MODULE 2: SUPPLY CHAIN MANAGEMENT AND INVENTORY MANAGEMENT

Objective:

The participants will acquire essential know-how for working in the field of Supply Chain Management. This know-how is based on the basic concepts of supply chain management.

Course Contents:-

Sr. No	Topic	Sub - Topic
1	Inventory Management in supply chain	• Introduction • Types of Inventories • Use of Inventory • Necessity to maintaining inventory • Causes of poor inventory control • Independent Vs Dependent Demand • Role of other functional departments • Costs associated with inventories • Inventory Management Systems
2	Inventory Classification and Strategies	• Advantages of Classification of Inventory • Regular Inventory Item • In-Process Inventories • Finished Goods Inventories • Strategic consideration in the control of finished goods inventory
3	Inventory Control in supply chain	• Inventory control and supply chain management • Inventory control problems • Objective of Inventory control • Functions of Inventory control • Factors affecting Inventory control policy • Inventory control models • Elements of Inventory control model • Dynamic nature of the inventory control model • Material Requirement Planning (MRP)

		• Just-in time production
4	Inventory Control Techniques	• Introduction • Best Order Quantity – EOQ • Determining Economic Order Quantity • Calculate EOQ examples • A-B-C Analysis • Codification • Standardization
5	Valuation of Inventory	• Importance of Valuation of Inventory • Valuation of Material Issues • Factors considered in selection of method of valuation of inventory
6	Capacity Planning	• Definition • measuring capacity, over and under capacity • Efficiency and utilization • Determinants of effective capacity • Capacity Planning: Long term strategy and short term planning • Calculation of capacity planning

MODULE 3: TRANSPORTATION MANAGEMENT.

Objective:

To learn about different modes of transportation and the different policies and procedures applicable for each mode

Course Contents:-

Sr. No	Topic	Sub – Topic
1	Transportation Management	• Definition. • Price, transit time, security of the goods, government regulations, safety. • Carrier characteristics and selection. • Third party versus in house transportation. • Terminal operations. • Transportation manager activities. • Documentation. • Types of Transportation
2	Road	• Pricing sourcing Freight/sourcing of Vehicle • Cargo Size, Types of Cargo • Lead- Time • Tracking goods in Transit • Transport agency selection and terms of Contract • Fixing of freight and freight sourcing • Factors affecting Road Freight

		• Vehicle records and selection of Vehicle • Types of vehicle available • Commercial Rules introduction • Bill processing - payment • Forwarding Note • On line Bidding / Method of Freight Selection • Reserve Auction for freight selection • Documents with Cargo & Formalities at check point • Statistical data
3	Rail Transportation	• Indian Railways and its Role in Transportation • Advantages and Disadvantages of Rail Transportation • Railway network in India • Railway Traffic and its contribution in country economics • Railway Organization • Working of Commercial Department of Railways • Procedure to book cargo with Railways • Operation to rake loading and rake Clearing • Details of Wharf age and Demurrage • Freight Calculation Method and commercial goods Tariff • Introduction and use with Railway Route • Cost of components of multimode Road + Rail Transport • Claims of Railway and its settlement • Division of rake en-route • Short Distance delivery
4	Various Incentives Schemes of Railways	• Station to station Rates; its policy • Volume discounts • Own your Wagon Scheme • Own siding setting up and maintenance • Leasing of Railway premises, Leasing of Railway SLR in passenger Trains. • Container Corporation of India • Introduction • Its Organization • I.C.D. Function and Services and its role • MAJOR depots and their locations. • Services offered by CONCOR • Detailed Statistics of Cargo model of I.C.D. • Various Freights – Structure of I.C.D. • Calculation of Freight of Domestic Container movement
5	Pipe lines	• GAS • OIL (present and its operations) • Cold supply chain management (Its role and importance) • Types of cold storage • Practical operations • Vehicle 7 storage Facility available • Government incentive & Potential • Liquid/Gas Cargo Movement • Hazardous Cargo Movement • Over Dimension and heavy Cargo Transportation • Documents and procedure for Export Cargo, Customs Clearing Formalities • Documents and Custom Clearing for Import Cargo • Air- Cargo booking / CHA Functions and job

7	Transportation and Environment	• Importance of environment consideration in transportation management • Environment issues related to transportation management

MODULE 4: WAREHOUSING AND DISTRIBUTION MANAGEMENT

Objective:
This course attempts to give an understanding of processes included in distribution and warehousing and the application of information systems.

Course Contents:-

Sr. No.	Topic	Sub-topic
1	Warehouse Organization	• Introduction • Types / classification of Warehouses • Role / Functionality of warehouses • Difference between warehouse and distribution center • Position of Warehouse / store division in the organization • Activities in a warehouse/store • Organization Structure of Store Division • Organizational Matters for Efficient Working of Stores Division
2	Warehouse Location, layout and Facility Planning	• Introduction • Factors for warehouse location selection • Layout planning of warehouse • Physical facility planning
3	Warehouse Operations	• Introduction of various warehouse operations
4	ISO Standards and Warehouse Activities	• Introduction • ISO Standards • Need for ISO standards • Registration for ISO certification • Warehouse Activities and Quality Assurance • Stores division activities in conformance to ISO 9001
5	Performance Evaluation of Stores activities	• Introduction • Criticism of stores division • Performance Evaluation • Performance Indicator • How is performance Evaluation carried out • When to evaluate performance

6	Computerization of Warehouse Activities	• Introduction • Tasks for Computerization in warehouse activities • Benefits of Computerization • Appropriate software for store keeping and Inventory control • Creating a database for Transactional Tasks • Setting up user's own inventory control database system • Internal communication • Leading store – keeping and inventory control packages
7	Warehouse Security, Safety and Maintenance	• Introduction • Security • Safety • Maintenance
8	Distribution	• Basic concepts of distribution system • Types of Distribution systems • Retailing activities in the distribution systems management
9	Designing the distribution network in supply chain	• Various Distribution models • Distribution network in Practice