

Diploma in container terminal management syllabus

Semester I

1. Introduction to Harbors, ports and terminals

1. Introduction to harbors and ports
2. Various types of ports
3. Types of ownerships of ports
4. Markings of bays in Ships and marking of bays in terminals.
5. Organization, Functions and duties performed by a port and a terminal
6. Essentials of a container terminal
7. TAMP (Tariff authority for major ports)

2. Introduction to ships and containers

1. Introduction to ships
2. History of containers
3. Construction of containers
4. Types of containers
5. Markings on containers
6. Specialized containers
7. Bulk Ports cost comparison, Container costs at Ports and ICD
8. Container stuffing and packing

3. Basics of Multimodal transport

1. Introduction to Multimodal Transport
2. Carriage By Air
3. Carriage By Sea
4. Carriage By Road
5. Carriage By Rail
6. Types of Vessels
7. Operators (Vessel and other)
8. Freight Forwarders and NVOCC
9. Outsourcing of Logistics Services
10. Overview of MMTG Act (1993)
11. INCO terms
12. Bill of lading and other documents

4. Commercial geography

1. Definition, Nature and Scope of Commercial Geography
2. Role of Industries in Economic Development.
3. Factors of Industrial Location
4. Weber's theory of Industrial Location
5. Major Industrial Regions of India
6. Need and importance of transportation in Commercial Development.
7. Geographical factors affecting International Trade
8. Major logistics routes in India
9. Major trade routes in world

Semester II

1. Management and Operation of container terminals

1. Introduction of container terminal
2. Types of Containers and Container Ships
3. Equipment's and New Technology
4. Container terminal operations
5. Yard Operations
6. Key performance Indicator
7. Container Charges
8. International Container ports
9. Container terminals operations types (Rail, Food and Fruit, General purpose)
10. Port Equipment's

2. Role of Technology in container terminal operations

1. New technology in shipping
2. RFID and GIS technology
3. Warehouse management system software
4. Terminal handling equipment
 - 4.1 Technology in Container handling
 - 4.2 Technology in Cargo and yard handling
5. Emerging Technology in terminal management (PCS-port community System, various software in terminal operations, block chain)
6. Essentials of a container terminal and quality

3. Financial Aspects of the Ports

1. Introduction to Economics
2. Theory of Firm
3. Monetary Policy
4. Introduction and Key Accounting Terms
5. Accounting Concepts and Conventions
6. Computerized Accounting
7. Port Revenue - Navigational charges
8. Port Revenue - Cargo related charges
9. Container and cargo Handling Charges
10. Port Expenditure
11. Operational efficiency of Terminal
12. Financial Control of AP and AR, Remittance, Vendor invoices, supporting's,

4. Maritime and commercial laws for terminal management

1. Introduction of Maritime Law
2. Major Port Trust Act 1962 Part –I
3. Indian Customs Acts 1962 Part-I
4. Indian Carriage by Goods by Sea Act 2018
5. Maritime Board Act of various State Government
6. Indian Carriage by Goods by Sea Act 2018
7. SEZ acts 2006
8. Laws of contract

Semester III Courses

1. Risk & Insurance management

1. Introduction & Significance of Risk, Disaster and Insurance Management
2. Risk in Supply Chain, Risk Management Framework
3. Disaster Management
4. Principles of insurance
5. Future of Insurance market
6. Fire insurance
7. Marine insurance and maritime fraud
8. Country Risk Analysis
9. Quality, Health and safety
10. Environment and training
11. Protection and indemnity clubs

2. Marketing in shipping and logistics

1. Principles and practice in Marketing
2. Segmentation, Targeting and Positioning
3. Consumer Behaviour
4. Marketing in service sector
 - 4.1 Marketing in Ports and shipping
 - 4.2 Marketing in Freight Forwarding Company
5. Concession agreements
6. Terminal service agreements
7. Operations of shipping agency (CFS process and documentation)
8. Ship Agency management System
9. Import and Export Container cycle costings
10. Agency contract

3. Industrial relation and Labour laws

1. Bombay Dock Labour Board Act
2. ILO code of practice on safety in container terminals
3. Industrial dispute act
4. Contract Labour (Regulation and Abolition) Act 1970
5. The Industrial Employment (Standing Orders) Act 1946
6. The Workmen's Compensation Act 1923
7. The Employees' Provident Fund and Miscellaneous Provisions Act 1952
8. The Trade Unions Act 2001

4. Submission (case study/white paper/research paper)