

€ TRAINING

Port Engineering



Port Engineering

Introduction:

This course covers many topics including shipping lines, container tankers, dry bulk, and port-centric logistics; it is a helpful, up-to-date resource for students of logistics and logistics professionals.

Course Objectives:

At the end of this course the participants will be able to:

- Examine the latest developments, knowledge, and practices taking place in logistics and supply chains within the shipping and port industry
- Define maritime logistics value and its strategic significance
- Provide a global perspective on the increasingly key area of logistics
- Understand all the aspects of logistics including container shipping, dry and wet bulk shipping, and port-centric logistics
- Define logistics hub and its applications for container ports and improve Supply chain accessibility and efficiency

Targeted Audience:

- Engineers and graduate engineers who want to receive some practical, specific applied knowledge and skills.
- Structural designers - to help understand the various criteria and traps they may not have otherwise considered.
- This course will benefit those who need to understand the ins and outs of a port development project and what all of the processes are about.
- For senior people responsible for managing a new port design- this is a good foundation for understanding all key criteria and the logical process.

Course Outlines:

Unit 1: Defining Maritime Logistics And Its Value:

- Maritime logistics in concept
- Maritime logistics value defined
- The strategic significance of maritime logistics value
- Concluding remarks

Unit 2: International Maritime Trade And Logistics:

- Logistics and supply chain management
- Logistics and transport
- Global trade and international maritime trade
- Global trade and international trade

Unit 3: Intermodal Freight Transport And Logistics:

- Characteristics of intermodal transport
- Containerisation of intermodal transport
- Advantages of intermodal transport
- Containerisation and the intermodal transport
- Development of intermodal transport
- Combined transport operators and their services
- Towards innovative intermodal transport

Unit 4: The Human Element In Maritime Logistics:

- The human element in science and theory
- Effects on system performance and wellbeing

Unit 5: Developing Liner Service Networks In Container Shipping:

- Background on container shipping
- Configuration and design of liner shipping services
- Shipping routes, network patterns, and port centrality

Unit 6: Supply Chain Integration Of Shipping Companies:

- Supply chain integration in the maritime shipping industry
- The impact of supply chain integration on shipping firm performance

Unit 7: Logistics Strategy In Container Shipping:

- Literature review
- Container line logistics activities
- Liner operator case studies
- Strategic groups

Unit 8: Tanker Shipping Logistics:

- Transfer components
- Marine terminals
- Contractual relationships
- Cargo transfer procedures
- Cargo losses

Unit 9: Dry Bulk Shipping Logistics:

- Dry bulk trade
- Dry bulk fleet
- Economies of dry bulk trade
- Principles of dry bulk shipping logistics

Unit 10: Dry Port In Concept And Practice:

- Intermodality and seaport inland access
- Intermodal terminal facilities
- The dry port concept
- Dry port examples in Europe