



## Terminal Operating and Management System (Marine Loading Arm)

24 - 28 Feb 2025  
Vienna (Austria)



# Terminal Operating and Management System (Marine Loading Arm)

**Ref.:** 15330\_311757 **Date:** 24 - 28 Feb 2025 **Location:** Vienna (Austria) **Fees:** 5200 Euro

This Mercury training course will empower you with in-depth knowledge and thorough understanding of marine loading arms and their corresponding terminal control systems. The knowledge and information gained through this course will enhance your skillset and potential to take up roles with higher responsibilities, thus contributing to your career progression. Further, by undertaking this course, you will be capable of handling technical glitch-related hiccups efficiently and promptly. The exposure and confidence gained through this training session will empower you to provide more suggestions and enhancement ideas to the loading process. Overall, this training course will equip you to significantly contribute to seamless cargo transport from the terminal storage facility to the vessel, in turn increasing your avenues for growth and progression.

## Objectives:

The main objective of this course is to empower marine professionals with:

- Thorough knowledge and information about marine loading arms and terminal control systems
- The required experience and knowledge to device and implement new ideas and advanced technologies to manage the loading process seamlessly and efficiently
- The required skill to undertake greater roles and responsibilities within the organisation, contributing to growth and progression in their careers
- Adequate knowledge and confidence to successfully train new employees on the working and mechanics of marine loading arms and their associated terminal control systems
- Reduced risk of mishaps and/or other damage to property and lives because of trained individuals performing operations
- The required skills and experience to work with advanced tools and technologies to manage control systems seamlessly
- The dynamic experience to handle all functions undertaken by control systems • The required awareness and experience to work with different kinds of control systems

## Target Groups:

- Owners and top management of marine organisations responsible for making purchase decisions and other such finance-related critical decisions for their organisations
- Technicians and engineers responsible for operating control systems and panels during the loading process
- Other port officials and ship crew who would participate in activities during the loading process
- Auditors and safety inspectors responsible for ensuring adherence to universal standards of employee health and safety as well as environmental regulations
- Legal authorities and finance advisors responsible for taking the legal course in the event of

conflict or hazard

## **Course Outline:**

### **Unit 1: Principles of a Marine Loading Arm Design**

- Operating safety
- Environment protection
- Lean technology
- Ease of operation
- Low maintenance
- Ease of shipping and set-up

### **Unit 2: Parts of a Marine Loading Arm**

- Stand post/riser
- Inboard arm
- Outboard arm
- Swivel joints

### **Unit 3: Three Types of Flange-Flange Connections**

- Bolted flange connection
- Manual quick couplers
- Hydraulic quick couplers

### **Unit 4: General Functions of Terminal Operating Systems**

- Shipping management
- Rail transport management
- Road transport management
- Yard management
- Invoicing/reporting
- Inventory

### **Unit 5: Different Types of Terminal Control Systems**

- Local control
- Explosion protected pendant control
- Radio control
- Human-machine interface HMI position monitoring system

### **Unit 6: Types of Ports/Terminals Managed by a Control System & Technologies used by Terminal Control Systems**

- Container terminals
- Multi-purpose terminals
- Universal/river terminals
- Internet
- Electronic data interchange EDI processing
- Mobile computers
- Wireless local area networks LANs
- Radio-frequency identification RFID

## **Unit 7: External Communication Avenues through Terminal Control Systems**

- Terminal operators
- Freight forwarders
- Shipping agents
- Container operators
- Port authorities
- Customs officers

## **Unit 8: Points of Consideration when Choosing Terminal Operating Systems**

- Current pain points
- Cost-effectiveness
- Impact on customer service
- Impact on traffic capacity
- Scope for future optimisation



**Registration form on the :  
Terminal Operating and Management System (Marine Loading Arm)**

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Complete & Mail or fax to Mercury Training Center at the address given below

**Delegate Information**

Full Name (Mr / Ms / Dr / Eng):

Position:

Telephone / Mobile:

Personal E-Mail:

Official E-Mail:

**Company Information**

Company Name:

Address:

City / Country:

**Person Responsible for Training and Development**

Full Name (Mr / Ms / Dr / Eng):

Position:

Telephone / Mobile:

Personal E-Mail:

Official E-Mail:

**Payment Method**

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