Special Courses · SC288

Container Terminal Operations and Management in Ports

Kuala Lumpur · 30 Nov 2026 - 4 Dec 2026

Date	Venue	Duration
30 Nov 2026 - 4 Dec 2026	**Kuala Lumpur**	**1 Week**
Fee	Ref	Language
£5,000 GBP	**SC288**	**English**

Introduction

Ports play a pivotal role in global trade and economic growth, acting as critical hubs for logistics and transportation networks. Container terminals are at the heart of these operations, facilitating the efficient transfer, storage, and distribution of goods across international markets. Managing container terminal operations effectively requires a strategic combination of advanced technology, infrastructure optimisation, and skilled human resources.

In today’s competitive environment, the growing demands of international trade, increased vessel sizes, and evolving supply chain dynamics require terminal operators and port managers to adapt to new trends, such as digitalisation, automation, and sustainability. This comprehensive training programme is designed to equip participants with the technical skills, operational strategies, and management insights necessary to enhance container terminal efficiency, minimise costs, and ensure seamless operations.

Through interactive sessions, case studies, and hands-on exercises, participants will gain practical knowledge about the challenges, solutions, and best practices for optimising container terminal performance.

Course Objectives of Container Terminal Operations and Management in Ports

Upon completing this programme, participants will be able to:

- Understand the core operations, processes, and challenges of container terminals.
- Identify key performance indicators (KPIs) for terminal efficiency and productivity.
- Apply effective strategies to manage container flows, berth allocation, and yard operations.
- Explore the role of automation, digitalisation, and technology in container terminal management.
- Develop skills for managing safety, sustainability, and environmental compliance in port operations.
- Analyse case studies of successful container terminal operations worldwide.

- Enhance collaboration between stakeholders in port logistics and maritime transport.

Course Methodology of Container Terminal Operations and Management in Ports

- Lectures and Expert Insights: Leading industry experts will share their insights and best practices.
- Case Studies: Analyse real-world talent acquisition challenges and solutions.
- Group Discussions: Engage in meaningful discussions and share experiences with peers.
- Role-Playing and Simulations: Practice recruitment scenarios to enhance skills.
- Hands-on Workshops: Gain practical experience in using recruitment tools and techniques.

Organisational Impact of Container Terminal Operations and Management in Ports

This training programme will have a positive impact on organisations by:

- Enhanced operational efficiency and productivity within container terminals.
- Improved cost management through optimised yard and berth utilisation.
- Adoption of innovative technologies to streamline port operations.
- Greater compliance with international standards for safety and sustainability.
- Strengthened collaboration and communication among port stakeholders.
- Enhanced competitiveness in the global maritime logistics market.

Personal Impact of Container Terminal Operations and Management in Ports

Participants will experience personal growth and development, including:

- A thorough understanding of container terminal operations and their significance.
- Skills to analyse and improve port processes for maximum efficiency.
- Insights into the latest trends and technologies in port logistics.
- Tools to measure, evaluate, and enhance terminal performance.
- The ability to address operational challenges with innovative solutions.
- Increased confidence in managing container terminals and maritime operations.

Who Should Attend

This training programme is ideal for:

- Port and terminal managers.
- Operations managers in logistics and maritime transport.
- Supply chain and logistics professionals.
- Engineers and planners working in port development.
- Maritime consultants and project managers.
- Government officials and regulatory authorities.
- Professionals seeking to understand advanced container terminal operations.

Course Outlines

Day 1

Introduction to Container Terminal Operations

- Overview of Global Maritime Trade and Container Terminals
- Types of Ports and Container Terminals (Transshipment, Gateway, etc.)
- Terminal Layout and Design: Yard, Berth, and Quay
- Key Stakeholders in Port Operations (Shipping Lines, Logistics Providers, Authorities)
- Challenges and Trends in Modern Container Terminals

Day 2

Operational Processes and Terminal Optimisation

- Vessel Berthing, Crane Scheduling, and Yard Operations
- Managing Container Flows: Loading, Unloading, and Storage
- Optimisation of Yard Space and Equipment (RTGs, Straddle Carriers, and AGVs)
- Case Study: Best Practices in Terminal Operations from Leading Ports
- Performance Metrics and KPIs for Container Terminal Efficiency

Day 3

Technology and Automation in Container Terminals

- Role of Digitalisation and Smart Ports in Modern Operations
- Automation Technologies: Automated Cranes, Vehicles, and Terminals
- Terminal Operating Systems (TOS): Features and Benefits
- Real-Time Data Analytics and IoT in Port Operations
- Case Study: Successful Implementation of Port Automation

Day 4

Safety, Sustainability, and Environmental Management

- Safety Standards and Risk Management in Container Terminals
- Environmental Challenges: Pollution, Emissions, and Waste Management
- Sustainability Initiatives: Green Ports and Renewable Energy Solutions
- International Regulations and Compliance in Maritime Operations (IMO Standards)
- Developing a Safety and Sustainability Plan

Day 5

Strategic Management and Future Trends

- Strategic Planning for Container Terminal Development and Expansion
- Impact of Mega-Vessels on Port Infrastructure and Operations
- Collaboration with Shipping Lines, Freight Forwarders, and Stakeholders
- Future Trends: Artificial Intelligence, Blockchain, and Smart Logistics
- Group Discussion: Solving Real-Life Challenges in Container Terminals
- Closing Remarks and Certificate Distribution

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