

# STATION OPERATING TECHNOLOGY - CONTAINER DOCUMENT, MODERN TECHNOLOGY SYSTEMS IN CONTAINER TERMINALS (COMPUTER - TABLET - COMMUNICATIONS), CONTAINER TERMINAL TARIFF, FINANCIAL COLLECTION SYSTEMS & TOS SYSTEM

*“Enhancing Efficiency and Profitability Through Smart Terminal Operations and Integrated Technologies”*

## Schedule

Date	Venue	Fees (Face-to-Face)
01 - 05 Mar 2026	Manama, Bahrain	USD 3495 per delegate

## Introduction

Container terminals are the backbone of global logistics, and their performance hinges on the effective integration of operational technologies. From automated data entry to advanced Terminal Operating Systems (TOS), modern container handling demands precision, speed, and real-time coordination across digital platforms.

This comprehensive 5-day course provides port and terminal professionals with the technical, financial, and process knowledge required to optimize container station operations. It covers documentation, communication systems, terminal tariffs, billing, and full utilization of TOS platforms for streamlined and profitable operations.

## Objectives

By the end of this course, participants will be able to:

- Understand end-to-end container documentation and processing flow
- Evaluate and implement station-level operating technologies (PC, tablet, wireless)
- Apply terminal tariff structures and configure billing processes
- Operate and optimize financial collection and billing systems in terminals
- Utilize TOS systems to enhance operational efficiency and decision-making

## Why Attend

- Gain a complete picture of container station processes, from gate to yard to vessel
- Learn how digital systems and TOS platforms transform terminal operations
- Improve revenue management through better tariff and billing practices
- Reduce turnaround times and manual errors with integrated station technology
- Support digitalization and smart port transformation goals

## Target Audience

This program is designed for:

- Terminal operations and planning managers
- Port IT and TOS system professionals
- Billing, finance, and tariff management staff
- Logistics and supply chain coordinators
- Maritime sector administrators and project leaders

## Individual Benefits

Key competencies that will be developed include:

- Terminal documentation and data flow optimization
- Familiarity with handheld and automated equipment in terminals
- Understanding of terminal tariff structures and pricing logic
- Use of financial systems and reconciliation tools in a terminal context
- Operational use and analysis of Terminal Operating Systems (TOS)

## Organizational Benefits

Upon completing the training course, participants will demonstrate:

- Faster, more accurate container movement and data capture
- Greater operational transparency and audit readiness
- Reduced processing time and manual errors in documentation
- Improved revenue collection and tariff application
- Alignment with international port technology standards

## Instructional Methodology

The course follows a blended learning approach combining theory with practice:

- Strategy Briefings - Terminal operations overview and technology landscape
- Case Studies - Global port efficiency improvements via digital tools
- Workshops - Tariff application, TOS configuration, and transaction flows
- Peer Exchange - Experiences with billing systems and smart terminals
- Tools - Sample forms, device checklists, billing templates, and system maps

## Course Outline

**Training Hours: 07:30 AM - 03:30 PM** Daily Format: 3-4 Learning Modules | Coffee Breaks: 09:30 & 11:15 | Lunch Break: 01:00 - 02:00

### Day 1: Foundations of Container Terminal Operations

- Module 1: Introduction to Container Station Processes (07:30 - 09:30) • Overview of terminal activities from gate to vessel • Role of documentation and data integrity
- Module 2: Container Documentation Systems (09:45 - 11:15) • Data capture, tracking numbers, gate pass workflows • Interface with customs and port authority systems
- Module 3: Workshop - Document Flow Mapping (11:30 - 01:00) • Map and streamline documentation stages

### Day 2: Terminal Technologies and Devices

- Module 4: On-Ground Technology Tools (07:30 - 09:30) • Use of handheld devices (tablets, RF scanners) • Integration with yard equipment and network systems
- Module 5: Communications and Control Infrastructure (09:45 - 11:15) • Wireless systems, WiFi, intercom, and command center links • Redundancy, fault tolerance, and uptime
- Module 6: Workshop - Station Technology Design (11:30 - 01:00) • Create a layout integrating devices, communications, and control

### Day 3: Tariff Management and Financial Processing

- Module 7: Terminal Tariff Structures (07:30 - 09:30) • Types of tariffs: container handling, storage, penalties • Pricing logic and tariff policy governance
- Module 8: Billing and Collection Systems (09:45 - 11:15) • Financial processing flows: billing to cash • Reconciliation, reporting, and audit trails
- Module 9: Workshop - Billing Case Study (11:30 - 01:00) • Apply tariffs and simulate invoice generation

### Day 4: Terminal Operating Systems (TOS) Fundamentals

- Module 10: TOS Overview and Components (07:30 - 09:30) • Yard planning, vessel planning, gate control • Integration with customs and ERP
- Module 11: Real-Time Operations and Dashboards (09:45 - 11:15) • Alerts, activity tracking, and exception handling • User interface features and role-based access
- Module 12: Workshop - Navigating a Sample TOS (11:30 - 01:00) • Simulate operations with sample TOS modules

### Day 5: System Integration and Future Trends

- Module 13: Smart Terminal Integration (07:30 - 09:30) • IoT, AI, and big data applications in container terminals • Predictive maintenance and real-time scheduling
- Module 14: Digital Transformation in Ports (09:45 - 11:15) • Global benchmarks and case examples • Cybersecurity and data privacy in terminal operations
- Module 15: Final Workshop - Terminal Optimization Plan (11:30 - 01:00) • Team-based presentation of a modernized terminal layout and tech strategy

## Certification

Participants will receive a Certificate of Completion in Station Operating Technology for Container Terminals, validating their ability to operate and optimize container terminal processes through the integration of documentation, communication systems, tariffs, financial flows, and TOS platforms.

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