PORT AND TERMINAL MANAGEMENT



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Introduction

A port is a business that sells time and reliability. Shipping lines choose it because vessels turn around quickly, cargo moves without damage, and the paperwork clears on schedule; they leave it when any of those fail. This Port and Terminal Management Training Course gives port authority staff, terminal operators, and marine operations professionals a complete working method for running that business. Participants learn port governance and commercial models, berth and yard planning, terminal operations and equipment management, safety and security compliance, digital port systems, and performance measurement.

Port and Terminal Management Course Objectives

- Apply port governance structures, concession models, and regulatory roles.
- Plan berth allocation, quay operations, and vessel turnaround.
- Manage yard planning, stacking strategy, and container handling.
- Operate gates, rail, and road interfaces for hinterland flow.
- Apply terminal operating systems and port community systems.
- Manage equipment availability, maintenance, and replacement planning.
- Apply ISPS security, safety, and environmental requirements.
- Apply regulatory compliance: customs, immigration, and port state control.
- Manage labour planning, productivity, and industrial relations basics.
- Measure performance with vessel turnaround, moves per hour, and dwell time.

Course Methodology

- Facilitated sessions built on real terminal data, vessel calls, and concession documents.
- Case workshops on berth congestion, cargo damage, and service failures.
- Capacity, productivity, and turnaround calculation exercises with live data.

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- Process mapping and operations improvement labs on terminal activities.
- Group exercise on a port management improvement plan with measurable targets.

Who Should Take This Course

- Port authority and terminal operations managers.
- Berth and marine planning supervisors.
- Container yard, gate, and cargo handling staff.
- Port engineering and equipment managers.
- HSE, security, and compliance officers.
- Shipping line, agency, and logistics representatives.

Port and Terminal Management Course Outlines

Day 1: Port Governance and Commercial Models

- Port types, ownership structures, and operating models.
- Port authority, regulator, and operator roles.
- Concession, lease, and landlord port models.
- Tariff structures, pricing, and revenue streams.
- Stakeholder management: lines, shippers, authorities, and communities.
- Port master planning and investment appraisal basics.
- Benchmarking port competitiveness and service levels.

Day 2: Berth, Quay, and Vessel Operations

- Berth allocation and quay planning methods.
- Vessel scheduling, service sequence, and turnaround time.

- Pilotage, towage, mooring, and marine service coordination.
- Crane allocation and ship-shore interface management.
- Gang, labour, and shift planning against vessel schedule.
- Cargo documentation and vessel clearance procedures.
- Anchorage management and waiting time reduction.

Day 3: Yard, Gate, and Cargo Handling

- Yard layout, block design, and stacking strategy.
- Container dwell time management and rehandling reduction.
- Reefer, dangerous goods, and out-of-gauge storage planning.
- Cargo handling equipment selection and productivity.
- Gate process design, appointment systems, and congestion control.
- Rail and road interface planning for hinterland flow.
- Cargo damage prevention and claims handling basics.

Day 4: Digital Systems, Safety, and Compliance

- Terminal operating systems and their core functions.
- Port community systems and stakeholder data exchange.
- Vessel and cargo tracking, EDI messaging, and automation.
- ISPS security and access control in terminals.
- Safety management in high-tempo operations.
- Environmental controls: emissions, noise, dust, and waste.
- Customs, immigration, and port state control interfaces.

Day 5: Equipment, Labour, and Performance

- Equipment availability and maintenance planning for throughput.
- Fleet utilisation, replacement, and lifecycle decisions.
- Labour planning, productivity measurement, and relations basics.
- KPIs: vessel turnaround, moves per hour, dwell time, and gate transaction time.
- Cost structure, budgeting, and revenue analysis for terminals.
- Auditing port operations and service quality.
- Building a port and terminal management improvement roadmap.

Conclusion

By successfully completing the Port and Terminal Management Training Course, participants will have acquired a thorough working knowledge of port governance and commercial models, berth and vessel operations, yard, gate, and cargo handling management, digital terminal systems, safety, security and regulatory compliance, and operational performance measurement. They will leave able to plan terminal capacity and labour against real demand, manage safety and compliance obligations, and report service and cost performance that owners and regulators can act on. Gentex Training Center delivers this programme with port and terminal practitioners working in live operations.

FAQs for the Port and Terminal Management course

Q1 What is the "Port and Terminal Management" course about?

It is a five-day programme on running port and terminal operations as a commercial and regulated business. It covers port governance and concession models, berth and vessel operations, yard and gate management, digital terminal systems, safety, security and compliance, and performance measurement.

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Q2 What are the key benefits of the "Port and Terminal Management" course?

Participants raise capacity without new capital by removing berth waiting, rehandling, and gate delay, manage safety, security, and customs obligations with documented controls, and report turnaround, productivity, and cost performance that owners and regulators can act on. They also plan equipment and labour against real demand.

Q3 What skills will I gain from the "Port and Terminal Management" course?

You will gain port governance and commercial model management, berth, vessel, and marine operations planning, yard, gate, and cargo handling management, and terminal digital systems, safety, compliance, and performance management.

Q4 What tools, methods, or standards are covered in the "Port and Terminal Management" course?

The course works with port ownership and operating models, landlord port, concession and lease structures, port authority, regulator and operator role definitions, tariff structures and revenue streams, port master planning and investment appraisal, berth allocation and quay planning methods, vessel scheduling and turnaround time analysis, pilotage, towage and mooring coordination, crane allocation and ship-shore interface management, gang and shift planning, vessel clearance procedures, anchorage and waiting time management, yard layout, block design and stacking strategy, container dwell time and rehandling reduction, reefer, dangerous goods and out-of-gauge storage planning, cargo handling equipment productivity, gate process design and truck appointment systems, rail and road interface planning, cargo damage prevention and claims basics, terminal operating systems, port community systems and EDI messaging, vessel and cargo tracking and gate automation, ISPS security and access control, safety management in high-tempo operations, environmental controls covering emissions, noise, dust and waste, customs, immigration and port state control interfaces, equipment availability and maintenance planning, fleet utilisation and replacement decisions, ISPS related labour productivity measurement, KPIs covering vessel turnaround, moves per hour, dwell time and gate transaction time, and terminal cost structure and revenue analysis.

Q5 How is the "Port and Terminal Management" course applied in real-world practice?

Teams apply it when preparing a berth allocation plan for a peak season, reviewing a concession agreement ahead of renewal, investigating a rise in container dwell time, testing an ISPS access control finding, planning equipment replacement against throughput targets, and presenting turnaround and cost performance at a board review.