PORT PROJECT MANAGEMENT



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Introduction

Port Project Management is a specialised Training Course that prepares professionals to plan, deliver, and control infrastructure and terminal projects in port environments. Participants learn to manage berth construction, quay works, dredging, terminal equipment installation, and marine interfaces within tight operational windows. The course connects project management method with the realities of a live port, where cargo operations continue while construction proceeds. Furthermore, it covers stakeholder coordination, contracting, safety, and commissioning in one connected workflow. As a result, learners leave able to deliver port projects without disrupting operations or missing deadlines.

Port Project Management Course Objectives

- Plan port projects across berth, quay, yard, and terminal scopes.
- Manage marine and landside interfaces with port operations.
- Build schedules that respect shipping windows and operational constraints.
- Apply critical path analysis and float management to port works.
- Estimate and control port project cost with earned value management.
- Manage port stakeholders: authority, operators, concessionaires, and customs.
- Apply FIDIC and port concession contract principles to delivery.
- Control risk with method statements and marine safety planning.
- Manage dredging, piling, and marine construction quality control.
- Run commissioning, handover, and operational readiness for terminals.

Course Methodology

- Workshop sessions built on real port and terminal project scenarios.
- Guided practice with scheduling around shipping and berth windows.
- Simulation exercises on operational disruption and recovery planning.

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- Group review of participant schedules and interface registers.
- Case studies from container, bulk, and general cargo terminals.
- Template-driven action planning for immediate workplace use.

Who Should Take This Course

- Project managers on port and terminal developments.
- Marine and civil engineers working on quay and berth works.
- Planning engineers and project controls specialists.
- Port authority and terminal operator project teams.
- Contracts and procurement officers in port projects.
- Consultants advising on port infrastructure delivery.

Port Project Management Course Outlines

Day 1: Port Project Foundations

- Port types, terminal layout, and operational systems.
- Project phases: feasibility, design, tender, construction, handover.
- Berth, quay, yard, and access infrastructure scope.
- Roles of port authority, operator, concessionaire, and contractor.
- Marine and landside interface mapping.
- Permits, marine licences, and statutory approvals.
- Project charter and control baselines.

Day 2: Planning and Scheduling Port Works

- Work breakdown structures for marine and terminal scopes.

- Activity sequencing around tides and shipping windows.
- Critical path method and float analysis for port programmes.
- Dredging, piling, and quay wall scheduling.
- Terminal equipment installation and commissioning schedules.
- Milestone planning and operational readiness gates.
- Recovery planning for weather and marine delays.

Day 3: Cost, Contracts, and Stakeholders

- Cost estimating for marine and terminal works.
- Budget baselines, cash flow, and earned value tracking.
- FIDIC contract forms in port projects.
- Port concession and lease agreement principles.
- Stakeholder mapping: authority, operators, customs, tenants.
- Payment certification and interim valuations.
- Change orders, variations, and claims documentation.

Day 4: Risk, Safety, and Quality Control

- Risk registers for marine and construction risk.
- Method statements and safe work method planning.
- Marine safety, diving, and heavy lift planning.
- Interface management with ongoing cargo operations.
- Inspection and test plans (ITP) for quay and yard works.
- Non-conformance reporting and corrective action.
- Environmental controls and dredging compliance.

Day 5: Commissioning, Handover, and Close-Out

- Operational readiness planning and trials.
- Systems testing for cranes, conveyors, and terminal systems.
- Snag lists, punch lists, and defect close-out.
- As-built documentation and handover packs.
- Training and transition to operations teams.
- Final account, taking-over certificate, and close-out.
- Building a personal port project action plan.

Conclusion

By successfully completing Port Project Management, participants will gain an integrated method for delivering port and terminal projects safely and on time. They will have acquired practical skills in port scheduling, marine and landside interface management, cost and contract control, risk and safety planning, and commissioning and handover. In addition, they will know how to keep cargo operations running during construction. Gentex Training Center delivers this course so professionals can apply port project practice from the next working day.

FAQs for the Port Project Management course

Q1 What is the "Port Project Management" course about?

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It is a five-day programme on delivering infrastructure and terminal projects in port environments. It covers berth and quay works, dredging, terminal equipment installation, marine interface management, cost and contract control, safety and quality, and commissioning and handover.

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

Participants deliver port projects without disrupting cargo operations, plan works around tides and shipping windows, and control marine and construction risk more effectively. They improve cost and contract control and complete handover with cleaner documentation and fewer operational surprises.

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

You will gain port project planning and scheduling, marine and landside interface management, cost and contract control, and risk, safety and quality management with commissioning and handover.

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

The course covers work breakdown structures, critical path method, float analysis, FIDIC contract forms, port concession and lease principles, interface registers, method statements, inspection and test plans (ITP), earned value management, and operational readiness and commissioning checklists.

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

Participants apply it by building baseline programmes around berth availability, coordinating with port authorities and operators, managing marine works inspections, processing variation orders, and compiling handover packs. Port authorities, terminal operators, and marine contractors use these methods on expansion and upgrade works.