

€ TRAINING

Project and Contract Management for Marine
Construction





Project and Contract Management for Marine Construction

Introduction:

The training program will discuss construction management principles, practices, techniques, and tools, to provide participants with an opportunity to learn key project management concepts. This training program provides to the Clients/Employers additionally "Planning of the Marine Works and Pre-Construction Stage" which includes FEED Design, Tendering, Contractor's Design, and other main stages.

Program Objectives:

At the end of this program the participants will be able to:

- Learn construction projects management concepts and techniques.
- Discuss the complex technical and managerial challenges in managing marine works construction projects.
- Understand how to effectively addresses these challenges.
- Get acquainted with the role of project management methods in enhancing and optimizing marine works construction projects.
- Envision the overall working process, and learning ways to foresee possible developments.

Targeted Audience:

- Managers.
- Project Administrators.
- Engineers.
- Superintendents.
- Cost Estimators.

Program Outlines:

Unit 1:

Navigating Pre-construction: Planning Marine Works and Tendering Process:

- Planning of marine works and pre-construction stage: Initiating the groundwork and preliminary stages of project development.

- Start, conceptual & preliminary: Beginning with conceptualization and preliminary assessments to lay the foundation for further development.
- Site investigations & hydraulic model investigations: Conducting thorough investigations to gather essential data and hydraulic model assessments to inform decision-making.
- Selection of optimum port plan: Choosing the most suitable port layout based on evaluations and assessments.
- Working drawings & quantities: Developing detailed plans and determining required quantities for materials and resources.
- Preliminary cost estimation for tendering & contract documents: Estimating project costs for tendering purposes and preparing necessary contract documentation for the bidding stage.

Unit 2:

Contractor Processes: Ensuring Quality, Safety, and Efficiency:

- The design process for the contractor and the selection process.
- Method statements.
- Risk definition process for tendering.
- Public safety/contractor's HSSE plan.
- Quality management/contractor's quality plan.
- Decision-making.
- Mobilization stage and execution of the temporary works.

Unit 3:

Mastering Project Management: Strategies for Success:

- Contract management.
- Project management.
- Scheduling & monitoring.
- Work breakdown structure.
- Project management process overview.
- How to become a project manager without a team.

Unit 4:

Navigating the Construction Phase: Roles, Resources, and Procurement:

- Construction stage.
- Project roles and organization structure.
- Human resources management.
- Different types of equipment, materials, subcontractors, and locations.
- Procurement management & contracting.

Unit 5:

Navigating Construction Challenges: Cost Management, Claims, and Post-Construction Procedures:

- Cost management: Overseeing project expenses and budgetary allocations throughout the construction process.
- Post-construction stage: Managing activities and tasks after project completion, including final inspections and closeout procedures.
- Claim management contract administration issues: Addressing disputes and conflicts arising during the project lifecycle related to contractual obligations.
- Common types of construction claims: Identifying typical disputes such as delays, defects, and change orders that may lead to claims.
- Requesting time extensions: Managing requests for additional project duration due to unforeseen circumstances or delays.
- Demobilization: Organizing the withdrawal of equipment, resources, and personnel from the construction site upon project completion.