

Fundamentals of Sea Port Construction and Engineering

2027 ๙๙๙๙ 9 – 5
Bangkok (Thailand)

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Day 3: Marine Structures and Construction Techniques

- Quay walls and jetties
- Piling and foundation systems
- Dredging and land reclamation
- Construction materials for marine environments

Day 4: Port Infrastructure and Equipment

- Cargo handling systems and equipment
- Storage facilities and warehouses
- Port access and hinterland connections
- Marine aids to navigation

Day 5: Port Maintenance, Operations, and Future Trends

- Asset management and maintenance strategies
- Environmental management and sustainability
- Port security and safety
- Emerging technologies and future developments in port engineering

Individual Impact

- Build confidence in contributing to port planning and design projects.
- Enhance practical knowledge of construction techniques in challenging marine environments.
- Develop skills in managing port assets and infrastructure effectively.

Work Impact

- Support the development of safe, efficient, and sustainable port facilities.
- Optimize operations and maintenance strategies for port infrastructure.
- Integrate environmental and technological considerations into port development projects.
- Contribute to projects that meet regulatory, operational, and economic objectives.

Training Methodology

The course uses a mix of theoretical and practical approaches to ensure real-world application:

- Interactive lectures and technical discussions on port engineering principles.
- Case studies highlighting successful port design and construction projects.
- Hands-on exercises in planning, design assessment, and infrastructure optimization.
- Group workshops to simulate project management and problem-solving scenarios.

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A decorative graphic at the bottom right of the page shows a chessboard with several chess pieces. A large gold king piece is prominent in the foreground, with other pieces like a silver pawn and a gold pawn visible behind it. The board has a checkered pattern of light and dark squares.

Beyond the Course

Participants will leave with:

- The ability to contribute effectively to port master planning, design, and construction projects.
- Skills to maintain and optimize port infrastructure with a focus on safety and sustainability.
- Awareness of emerging technologies and trends shaping the future of port engineering.
- Practical tools and frameworks to apply knowledge immediately in professional settings.

A decorative graphic in the bottom right corner featuring a chessboard with several chess pieces (a king, a queen, and a pawn) and concentric circles radiating from behind them.

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