

Marine Operations for Jack-Up Barges

Barcelona (Spain)

22 September - 3 October 2025

UK Training

PARTNER



Marine Operations for Jack-Up Barges

Code: OG28 From: 22 September - 3 October 2025 City: Barcelona (Spain) Fees: 8600 Pound

Introduction

This comprehensive 10-day course on Marine Operations for Jack-Up Barges is designed to provide participants with the latest industry knowledge, technological advancements, and best practices necessary for the effective operation, management, and maintenance of jack-up barges. Emphasizing safety, structural integrity, and environmental considerations, the course covers the core aspects of planning, mobilization, jacking, positioning, and maintaining jack-up barges in diverse marine environments. Participants will engage in hands-on learning through simulations, case studies, and interactive workshops, equipping them with the expertise to manage complex marine operations with confidence.

Course Objectives

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

- Grasp advanced concepts and industry standards for jack-up barge operations, including mobilization, positioning, and deployment.
- Implement best practices in safety management, risk assessment, and environmental compliance for marine operations.
- Perform precise jacking and leveling procedures to maintain the stability and structural integrity of jack-up barges.
- Evaluate and mitigate operational risks related to harsh weather, unstable seabeds, and technical malfunctions.
- Gain proficiency in maintaining, inspecting, and troubleshooting critical systems and components.
- Incorporate innovative technologies and automation to improve operational efficiency and safety.
- Enhance coordination between marine operation teams and external stakeholders.
- Understand regulatory compliance, documentation, and reporting requirements for marine operations.

Course Outlines

Day 1: Introduction to Marine Operations for Jack-Up Barges

- Overview of Jack-Up Barge Types and Applications
- Industry Standards and Safety Regulations
- Key Components and Operating Principles

Day 2: Site Assessment and Pre-Mobilization Planning

- Site Survey Techniques and Data Collection
- Seabed Analysis and Environmental Considerations
- Risk Assessment and Hazard Analysis



Day 3: Mobilization and Positioning of Jack-Up Barges

- Mobilization Planning and Logistics
- Navigational and Positioning Systems
- Mooring and Anchoring Techniques for Stability

Day 4: Advanced Jacking and Leveling Procedures

- Principles of Jacking and Structural Integrity
- Load Distribution and Balance Maintenance
- Emergency Procedures for Jacking Malfunctions

Day 5: Managing Weather and Environmental Factors

- Understanding the Impact of Tidal, Wind, and Wave Conditions
- Adapting Operations for Harsh Marine Environments
- Environmental Protection Measures and Regulations

Day 6: Equipment Maintenance and System Checks

- Routine and Preventive Maintenance Protocols
- Inspection Procedures for Key Systems and Structural Components
- Troubleshooting Common Issues in Hydraulic and Electrical Systems

Day 7: Safety Management and Emergency Preparedness

- Safety Protocols and Incident Response Planning
- Role of Automation and Technology in Safety Enhancements
- Case Studies of Emergency Scenarios in Marine Operations

Day 8: Innovations in Jack-Up Barge Technology

- Latest Technologies in Barge Automation and Control Systems
- Sensor Systems for Real-Time Monitoring
- Drones and Robotics in Barge Inspection and Maintenance

Day 9: Coordination and Stakeholder Management

- Communication and Coordination with Project Teams
- Liaison with Port Authorities and Regulatory Bodies
- Documenting Operations and Incident Reporting

Day 10: Regulatory Compliance and Documentation

- Overview of International and Local Regulations
- Documentation Requirements and Record-Keeping
- Course Wrap-Up, Q&A, and Case Study Analysis



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