

## Marine Operations for Jack-Up Barges

*Online*

*19 - 30 January 2025*

UK Training

# PARTNER



# Marine Operations for Jack-Up Barges

Code: OG28 From: 19 - 30 January 2025 City: Online Fees: 4000 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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**BLACKBIRD**  
FOR TRAINING



International House 185 Tower Bridge  
Road London SE1 2UF United Kingdom



+44 7401 1773 35  
+44 7480 775526



Sales@blackbird-training.com



www.blackbird-training.com

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