Advanced Marine Operations for Jack-Up Barges: 1-Week Course

13 – 17 September 2027
Paris (France)



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Why This Course

Operating jack-up barges in offshore environments requires more than routine marine knowledge. It calls for precise coordination, technical mastery, disciplined safety practices, and confident leadership. In high-risk settings where conditions can change quickly, every decision directly impacts personnel safety, asset integrity, and project timelines.

This one-week intensive program is designed to provide a structured, practical understanding of jack-up barge marine operations. Participants will build solid technical knowledge of barge systems, movement planning, safety management, and advanced jacking operations. Through applied discussions, real operational scenarios, and problem-solving exercises, the course prepares professionals to manage offshore activities with competence, clarity, and control.

What You'll Learn and Practice

By attending this program, you will be able to:

- Develop a clear understanding of jack-up barge design, systems, and operational limitations.
- Plan and execute safe, stable, and efficient barge moves.
- Apply structured risk assessment and safety management frameworks.
- Operate and troubleshoot jacking systems with confidence.
- Conduct technical site assessments, including environmental and seabed considerations.
- Strengthen leadership and communication skills within offshore teams.

The Program Flow

Day 1: Introduction to Jack-Up Barges

- Types, configurations, and applications of jack-up barges
- Core mechanical and structural components
- System integration and operating principles
- Industry standards, compliance requirements, and operational limitations



Day 2: Safety and Risk Management

- Hazard identification and formal risk assessment techniques
- Personal safety practices and operational control measures
- Emergency preparedness and response planning
- Environmental protection procedures and regulatory compliance

Day 3: Barge Move Planning and Execution

- Pre-move inspections and technical site surveys
- Weather forecasting and environmental impact considerations
- Move sequence development and execution planning
- Position monitoring, stability control, and leg penetration management

Day 4: Advanced Jacking Operations

- Jacking system components, inspection routines, and maintenance
- Advanced jacking techniques and operational optimization
- Troubleshooting mechanical and system-related issues
- Maintaining safety margins while improving operational efficiency

Day 5: Operational Management and Leadership

- Crew structure, roles, and accountability
- Communication strategies in offshore environments
- Project coordination and management for jack-up operations
- Case studies and applied problem-solving workshops

Individual Impact

Participants will leave the program with:

- Greater confidence in supervising and executing jack-up barge moves.
- Stronger technical capability in jacking operations and system troubleshooting.
- Improved ability to assess and mitigate operational risks.
- Enhanced leadership skills suited to high-pressure offshore conditions.

Organizational Impact

Organizations that enroll their teams will benefit from:

- Reduced operational risk during barge movements and jacking activities.
- Stronger adherence to safety and environmental standards.
- More efficient planning and execution of offshore marine projects.
- Better coordination and performance across offshore crews.



Training Methodology

- Expert-led technical sessions grounded in practical experience
- Real-world offshore scenarios and guided discussions
- Structured workshops on risk assessment and move planning
- Collaborative exercises focused on operational decision-making

Beyond the Course

By the end of the one week, participants will be equipped to:

- Lead and support jack-up barge operations with technical assurance.
- Implement disciplined safety and risk management practices offshore.
- Optimize movement and jacking procedures without compromising compliance.
- Contribute meaningfully to safe, efficient, and successful marine operations.

