Fundamentals of Jack-Up Barge Marine Operations

15 – 19 March 2027
Lyon (France)



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Introduction

Jack-up barge marine operations play a vital role in offshore projects, particularly in activities that require stable working platforms in marine environments. Successful operations depend on proper planning, safe mobilization, accurate positioning, controlled jacking, effective leveling, and continuous attention to maintenance and operational risks.

This 1-week training course provides a practical and focused overview of the fundamentals of jack-up barge operations. It is designed for professionals involved in offshore marine operations, project operations, marine coordination, offshore construction, and related technical or operational roles.

Participants will gain a clear understanding of how jack-up barge operations are planned, coordinated, and executed in line with industry expectations, safety procedures, regulatory requirements, and offshore operational standards. The course also highlights environmental awareness, documentation requirements, stakeholder coordination, and key safety principles required to support efficient and safe marine operations.

Course Objectives

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

- Understand the fundamentals of jack-up barge operations and main components.
- Recognize the key stages of marine operation planning and execution.
- Understand safe mobilization, positioning, jacking, and leveling principles.
- Identify operational risks related to offshore environments.
- Apply basic stability and operational control concepts during jack-up barge activities.
- Understand maintenance and inspection fundamentals for key systems.
- Apply safety procedures and emergency response considerations in marine operations.
- Improve coordination with project teams, stakeholders, and external marine authorities.
- Understand basic regulatory, compliance, and documentation requirements.
- Support effective decision-making during offshore marine and project operations.



Course Outlines

Day 1: Introduction to Jack-Up Barge Operations

- Overview of jack-up barges and their offshore applications.
- Main components of jack-up barges and operational principles.
- Introduction to marine operations workflow.
- Roles and responsibilities in offshore marine operations.
- General safety principles and industry standards overview.
- Key terminology used in jack-up barge operations.

Day 2: Planning and Site Considerations

- Operational planning requirements for jack-up barge activities.
- Site assessment principles and preparation requirements.
- Seabed conditions and their impact on jack-up barge positioning.
- Environmental awareness in offshore environments.
- Weather, water depth, and marine condition considerations.
- Introduction to risk identification in marine operations.

Day 3: Mobilization, Positioning & Jacking Basics

- Mobilization process and operational sequence.
- Marine logistics and preparation for offshore deployment.
- Positioning considerations in offshore environments.
- Basic jacking and leveling principles.
- Stability fundamentals during jacking operations.
- Operational control and communication during critical activities.

Day 4: Maintenance Awareness and Safety Operations

- Overview of maintenance principles for key jack-up barge systems.
- Inspection fundamentals and operational readiness checks.
- Common operational issues and early warning signs.
- Safety procedures in marine environments.
- Emergency response considerations and incident awareness.
- Risk control measures during offshore operations.



Day 5: Coordination, Compliance & Operations Overview

- Coordination with project teams and relevant stakeholders.
- Communication with external marine authorities.
- Regulatory requirements related to jack-up barge marine operations.
- Documentation, permits, reports, and operational records.
- Review of planning, mobilization, positioning, jacking, leveling, and maintenance considerations.
- Course consolidation and key operational takeaways.

Why Attend this Course: Wins & Losses!

- Gain a practical understanding of jack-up barge marine operations.
- Improve awareness of planning, mobilization, positioning, jacking, and leveling activities.
- Strengthen knowledge of offshore safety procedures and operational risk control.
- Understand maintenance and inspection fundamentals that support operational reliability.
- Improve coordination with project teams, stakeholders, and marine authorities.
- Build confidence in handling documentation, compliance, and regulatory requirements.
- Support safer, more efficient, and better-coordinated offshore marine operations.

Conclusion

This training course provides participants with a clear and structured understanding of the fundamentals of jack-up barge marine operations. Through practical coverage of planning, mobilization, positioning, jacking, leveling, maintenance, safety, coordination, compliance, and documentation, the course supports the development of essential operational awareness for offshore marine environments.

By the end of the program, participants will be better prepared to contribute to safe, efficient, and well-coordinated jack-up barge operations, while understanding the risks, responsibilities, and industry expectations associated with offshore project execution.

