

SUBSEA AWARENESS COURSE

“Enhancing Understanding of Subsea Systems, Operations, and Integrity for Safer and Smarter Offshore Developments”

Schedule

Date	Venue	Fees (Face-to-Face)
01 - 05 Mar 2026	Manama, Bahrain	USD 3495 per delegate

► **Available delivery methods:** In-House Training

Introduction

The subsea sector plays a vital role in offshore oil and gas developments, connecting complex systems beneath the ocean's surface to ensure safe and continuous hydrocarbon production. A sound understanding of subsea technology, field architecture, equipment, and operational challenges is essential for engineers, operators, and project professionals involved in offshore projects.

This comprehensive 5-day course provides a high-level yet practical overview of the subsea industry, covering the fundamentals of subsea equipment, field development, installation, operation, inspection, and decommissioning. It is designed to build cross-functional awareness and support better decision-making in subsea-related projects.

Objectives

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

- Understand the function and configuration of key subsea systems and components
- Gain familiarity with subsea field development processes and project phases
- Recognize design and operational challenges in subsea environments
- Interpret basic documentation, specifications, and standards related to subsea assets
- Communicate effectively with technical teams involved in subsea projects

Why Attend

- Gain a broad overview of subsea equipment, operations, and lifecycle management
- Improve communication between project, engineering, and operations teams
- Build foundational knowledge to support offshore project planning and execution
- Enhance safety awareness and risk understanding in subsea environments
- Learn from industry case studies and real-world subsea development examples

Target Audience

This program is designed for:

- Engineers and technical professionals entering the subsea or offshore field
- Project and operations personnel in oil & gas, marine, or energy sectors
- Procurement, HSE, and quality professionals supporting subsea activities
- Technical support staff seeking cross-disciplinary awareness
- Anyone involved in planning, executing, or managing offshore field developments

Individual Benefits

Key competencies that will be developed include:

- Understanding of subsea system architecture and components
- Familiarity with installation, inspection, and maintenance practices
- Risk and integrity awareness related to deepwater operations
- Interpretation of subsea field layouts, flow diagrams, and interfaces
- Effective communication across engineering and project functions

Organizational Benefits

Upon completing the training course, participants will demonstrate:

- Better alignment between onshore teams and offshore operations
- More informed and efficient project planning and execution
- Reduced communication gaps and technical misunderstandings
- Improved decision-making around subsea equipment and installation methods
- Greater safety and asset integrity focus in offshore developments

Instructional Methodology

The course follows a blended learning approach combining theory with practice:

- Strategy Briefings – Subsea systems, field layout concepts, and development phases
- Case Studies – Subsea failures, intervention projects, and technology applications
- Workshops – Field layout design, equipment review, risk scenario evaluation
- Peer Exchange – Discussion on regional subsea operations and lessons learned
- Tools – Sample documentation, layout drawings, inspection checklists

Course Outline

Training Hours: 07:30 AM - 03:30 PM Daily Format: 3-4 Learning Modules | Coffee Breaks: 09:30 & 11:15 | Lunch Break: 01:00 - 02:00

Day 1: Introduction to Subsea Systems and Field Development

- Module 1: Subsea Industry Overview (07:30 - 09:30) • Evolution of subsea oil and gas projects • Key drivers: water depth, production needs, and technology
- Module 2: Field Architecture and System Components (09:45 - 11:15) • Umbilicals, trees, manifolds, jumpers, risers, and flowlines • Understanding field layout and tieback strategies
- Module 3: Workshop - Field Layout Interpretation (11:30 - 01:00) • Reviewing subsea system schematics and connections

Day 2: Equipment and Installation Techniques

- Module 4: Subsea Production Equipment (07:30 - 09:30) • Xmas trees, connectors, valves, ROV interfaces • Control systems and hydraulic/power distribution
- Module 5: Installation Operations (09:45 - 11:15) • Laying pipelines, deploying subsea structures • Vessel types, installation sequences, and weather impacts
- Module 6: Workshop - Equipment Review Exercise (11:30 - 01:00) • Identifying functions and interfaces of major components

Day 3: Operation, Monitoring, and Control

- Module 7: Operating Subsea Fields (07:30 - 09:30) • Startup procedures, steady-state production • Control room interfaces and emergency responses
- Module 8: Monitoring and Surveillance (09:45 - 11:15) • Flow assurance, sand and hydrate management • Real-time monitoring technologies and remote diagnostics
- Module 9: Workshop - Subsea Operations Scenario (11:30 - 01:00) • Team exercise: handling a simulated flow issue

Day 4: Inspection, Maintenance, and Integrity

- Module 10: Inspection and Maintenance Programs (07:30 - 09:30) • Visual inspection, NDT, AUVs and ROVs • Preventive vs corrective maintenance
- Module 11: Integrity Management (09:45 - 11:15) • Corrosion, fatigue, coating degradation • Risk-based inspection and failure prevention
- Module 12: Workshop - Inspection Plan Review (11:30 - 01:00) • Sample data interpretation and inspection prioritization

Day 5: Decommissioning and Regulatory Aspects

- Module 13: Decommissioning and Removal (07:30 - 09:30) • Plug & abandonment, structure removal, seabed clearance • Environmental, regulatory, and cost considerations
- Module 14: HSE and Compliance (09:45 - 11:15) • Safety culture in subsea operations • International codes, environmental protection, and permits
- Module 15: Final Workshop - Subsea Project Recap (11:30 - 01:00) • Group presentations summarizing subsea development lifecycle

Certification

Participants will receive a Certificate of Completion in Subsea Awareness, validating their practical understanding of subsea field development, systems, equipment, operations, and integrity management.

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