

SUBSEA AWARENESS COURSE

“Explore the Depths: A Complete Introduction to Subsea Systems, Technologies, and Operations”

Schedule

Venue (InHouse)	Fees
At Your Organization Premises	Ask For The Quotation

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

Introduction

This Subsea Awareness Course is designed to provide a comprehensive overview of subsea engineering, systems, and field development processes. It introduces participants to the components, functionality, lifecycle, and critical challenges of subsea production systems in offshore oil and gas operations. With a mix of theoretical concepts and real-world case studies, this course enhances decision-making and cross-functional collaboration for professionals interfacing with subsea operations.

Objectives

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

- Understand the architecture of subsea systems and their key components
- Recognize lifecycle stages from design and installation to operation and decommissioning
- Identify common operational risks, intervention techniques, and maintenance strategies
- Appreciate project interfaces, system constraints, and technology limitations
- Engage more effectively with engineering, procurement, and construction (EPC) teams

Why Attend

- Gain a solid understanding of subsea systems without needing a technical background
- Learn how subsea infrastructure integrates with topside facilities and flow assurance
- Improve coordination and communication between disciplines and project phases
- Stay current with technological trends, regulatory standards, and global practices

Target Audience

- Technical and non-technical oil & gas professionals
- Project managers and procurement specialists
- Engineers transitioning to offshore/subsea roles
- Regulators, HSE officers, and commercial teams
- Field development planners and offshore operations staff

Individual Benefits

- Increased competence and confidence in offshore discussions
- Better understanding of project scope, risks, and timelines
- Career growth in subsea operations and offshore energy projects
- Recognition with a formal industry-relevant certificate

Organizational Benefits

- Improved collaboration between onshore and offshore teams
- Smoother project execution with reduced interface errors
- Faster onboarding for cross-functional staff
- Enhanced technical awareness across project stakeholders

Instructional Methodology

- Expert-led lectures with visual aids and system diagrams
- Videos and animations of subsea installations and operations
- Real-world case studies and incident reviews
- Interactive Q&A, workshops, and participant discussions
- Reference manuals and take-home material

Course Outline

DETAILED 5-DAY COURSE OUTLINE (Customizable) Training Hours: 07:30 AM – 03:30 PM Daily Format: 3–4 Modules | Coffee breaks: 09:30 & 11:15 | Lunch Buffet: 01:00 – 02:00

Day 1: Introduction to Subsea Engineering & Field Development

- Module 1 (07:30 – 09:30): Overview of Offshore Oil & Gas Production
- Module 2 (09:45 – 11:15): Subsea Field Development Planning & Layout
- Module 3 (11:30 – 01:00): Subsea Systems: Architecture and Key Components

Day 2: Subsea Equipment and Infrastructure

- Module 4 (07:30 – 09:30): Subsea Trees, Wellheads, and Manifolds
- Module 5 (09:45 – 11:15): Umbilicals, Flowlines, Risers (UFR)
- Module 6 (11:30 – 01:00): Control Systems and Power Distribution

Day 3: Installation, Commissioning, and Operations

- Module 7 (07:30 – 09:30): Installation Methods and Key Vessels
- Module 8 (09:45 – 11:15): Commissioning and Startup Procedures
- Module 9 (11:30 – 01:00): Subsea Production Operations and Flow Assurance

Day 4: Inspection, Maintenance, and Integrity Management

- Module 10 (07:30 – 09:30): Inspection Techniques (ROVs, AUVs, Sensors)
- Module 11 (09:45 – 11:15): Integrity Management and Intervention Strategies
- Module 12 (11:30 – 01:00): Emergency Response and Leak Detection

Day 5: Case Studies and Future Trends

- Module 13 (07:30 – 09:30): Real-world Case Studies and Incident Reviews
- Module 14 (09:45 – 11:15): Emerging Technologies in Subsea Systems (AI, Digital Twins)
- Module 15 (11:30 – 01:00): Review, Certification Exam, and Closing

Certification

All participants will receive a Certificate of Completion in Subsea Awareness & Offshore Systems Fundamentals upon successful completion of the course.

Why Choose MAWA Events

- **Global Expertise:** More than 17 years of experience in professional training and consulting.
- **Industry-Leading Faculty:** Courses delivered by seasoned professionals with hands-on experience.
- **Practical Insights:** Learn to turn theory into actionable strategies for real-world business impact.
- **Client-Focused Solutions:** Customized programs designed to achieve your organisation’s unique goals.

In-House / Customized Training

Interested in running this course for your team?

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