



London TDM

# Oil and Gas Industry Training Courses

**Course Venue:** United Arab Emirates - Dubai

**Course Date:** From 09 November 2025 To 13 November 2025

**Course Place:** Downtown Dubai

**Course Fees:** 5,000 USD

## Introduction

The "Subsea Systems and Deepwater Operations" course is designed to provide participants with comprehensive knowledge and practical insights into the engineering, technical, and operational aspects of subsea systems and deepwater offshore operations. Over the span of five days, professionals will learn about technologies, challenges, and solutions associated with deepwater operations, enhancing their technical skills and operational decision-making abilities.

## Objectives

- Understand the principles and components of subsea systems.
- Explore the engineering challenges and solutions for deepwater operations.
- Gain knowledge about the installation and maintenance of subsea equipment.
- Analyze safety and risk management in deepwater environments.
- Develop strategies for effective project management in subsea operations.

## Course Outlines

### Day 1: Introduction to Subsea Systems

- Overview of subsea engineering history and evolution
- Components of subsea production systems
- Types of subsea equipment and their functions
- Introduction to subsea system design and architecture
- Case studies on successful subsea projects

### Day 2: Deepwater Exploration and Production

- Technologies and methods used in deepwater exploration
- Challenges faced during deepwater production
- Subsea drilling techniques and equipment
- Environmental considerations and impact assessments
- Deepwater development strategies and economics

### Day 3: Installation, Operation, and Maintenance

- Subsea installation methodologies
- Operational challenges in deepwater environments
- Maintenance and inspection of subsea systems
- Intervention and repair techniques
- Advances in remote and autonomous subsea technologies

### Day 4: Safety, Risk, and Environmental Management

- Risk assessment techniques for subsea operations
- Safety protocols and emergency response strategies
- Environmental regulations and compliance
- Contingency planning and incident management
- Understanding the role of technology in mitigating risks

## **Day 5: Project Management and Future Trends**

- Project management strategies for subsea projects
- Budgeting and cost control in deepwater operations
- Training and competency development for personnel
- Industry trends and advancements impacting subsea systems
- Panel discussion: Future of subsea engineering and operations