

€ TRAINING

Oil and Gas Exploration and Production



23 - 27 February 2025
Sharm El-Sheikh (Egypt)



Oil and Gas Exploration and Production

REF: E1176 DATE: 23 - 27 February 2025 Venue: Sharm El-Sheikh (Egypt) - Fee: 4465 Euro

Introduction:

This training program provides a comprehensive overview of the key processes and technologies involved in the exploration and production of oil and gas. It covers the lifecycle from initial exploration to extraction and production, emphasizing safety, efficiency, and industry best practices. Through it, participants will gain insights into geological surveys, drilling operations, reservoir management, and production techniques.

Program Objectives:

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

- Explore the fundamentals of oil and gas exploration.
- Identify techniques used in geological and geophysical surveys.
- Explore the principles of drilling and well completion.
- Manage reservoir performance for optimal production.
- Apply best practices for safe and efficient production operations.

Target Audience:

- Exploration and Production Engineers.
- Geologists and Geophysicists.
- Drilling Engineers and Technicians.
- Oilfield Operators.
- Project Managers in the energy sector.

Program Outline:

Unit 1:

Introduction to Oil and Gas Exploration:

- Basics of oil and gas formation.
- Overview of exploration methods and processes.

- Geological and geophysical surveys.
- Technologies used in seismic exploration.
- Identifying potential hydrocarbon reserves.

Unit 2:

Drilling Operations:

- Types of drilling onshore and offshore.
- Drilling rigs and equipment.
- The drilling process and techniques.
- Well design and casing procedures.
- Safety considerations in drilling operations.

Unit 3:

Well Completion and Production Techniques:

- Steps in well completion and testing.
- Types of production wells vertical, horizontal, multilateral.
- Artificial lift systems and methods.
- Flow control and surface facilities.
- Managing well integrity and maintenance.

Unit 4:

Reservoir Management and Optimization:

- Understanding reservoir characteristics.
- Techniques for reservoir monitoring.
- Enhanced Oil Recovery EOR methods.
- Maximizing production efficiency.
- Managing declining production rates.

Unit 5:

Health, Safety, and Environmental Considerations:

- HSE practices in exploration and production.
- Environmental impact of oil and gas operations.
- Regulatory compliance and industry standards.
- Emergency response and spill management.
- Sustainable practices in oil and gas production.