Fundamentals of Oil & Gas Exploration and Production

21 – 25 November 2027
Amman (Jordan)



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Ref: 322937_219621 **Date:** 21 – 25 November 2027 **Location:** Amman (Jordan) **Fees:** 4900 GBP

Course Description

This comprehensive 1-week course provides a solid foundation in oil and gas exploration and production fundamentals. Participants will gain insights into geological concepts, exploration techniques, drilling operations, production processes, and field management strategies. The course covers both conventional and unconventional resources, onshore and offshore operations, and the latest technologies shaping the industry.

Learning Objectives

- Understand the geological principles and exploration methods used in oil and gas discovery
- Gain knowledge of drilling techniques, well completion, and production processes
- Learn about reservoir characteristics, field development planning, and production optimization
- Explore the economic and environmental considerations in oil and gas projects
- Develop a comprehensive understanding of the upstream oil and gas value chain

Course Modules

Day 1: Introduction to Oil and Gas Exploration

- Overview of the oil and gas industry
- Petroleum geology fundamentals
- Exploration techniques and technologies
- Seismic interpretation and prospect evaluation

Day 2: Drilling and Well Completion

- Drilling operations and rig types
- Well design and construction
- Completion techniques and equipment
- Well testing and evaluation

Day 3: Reservoir Engineering and Field Development

- Reservoir characteristics and fluid properties
- Reserve estimation and classification
- Field development planning
- Enhanced oil recovery techniques



Day 4: Production Operations and Facilities

- Production systems and artificial lift methods
- Surface facilities and processing
- Flow assurance and production optimization
- Maintenance and integrity management

Day 5: Project Economics and Environmental Considerations

- Oil and gas project economics
- Risk assessment and decision-making
- Environmental regulations and best practices
- Emerging trends and technologies in E&P

Practical Wins for Participants

- Ability to interpret basic geological and geophysical data for exploration decisions
- Understanding of key factors influencing drilling and production operations
- Skills to evaluate field development options and production strategies
- Knowledge to assess economic viability and environmental impact of E&P projects

