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OIL & GAS EXPLORATION & PRODUCTION: TECHNICAL, COMMERCIAL & FUNDAMENTAL

Start Date:	02/08/2026	**End Date:**	06/08/2026
Categories:	Oil & Gas	**Venues:**	Doha
Formats:	In Person	**Instructors:**	

OVERVIEW

This course offers a comprehensive overview of the oil and gas exploration and production (E&P) industry, covering both technical processes and commercial fundamentals. Participants will gain a clear understanding of upstream operations, including geology, drilling, reservoir management, production techniques, and the economic and business drivers that influence E&P activities globally.

OBJECTIVES

By the end of this course, participants will be able to: – Understand the technical processes involved in exploration, drilling, production, and reservoir management. – Analyze the commercial frameworks, project economics, and market dynamics influencing E&P operations. – Recognize the key challenges and risks associated with upstream oil and gas projects. – Apply basic technical and financial principles to evaluate E&P opportunities and operations. – Understand the regulatory, environmental, and social factors impacting the exploration and production industry.

COURSE OUTLINE

1- Overview of the Oil & Gas Industry: Value Chain and Upstream Focus 2- Exploration Techniques, Reservoir Identification, and Appraisal Methods 3- Drilling Engineering, Well Construction, and Completion Basics 4- Production Operations, Facilities Management, and Enhanced Oil Recovery (EOR) 5- Commercial Drivers, Project Economics, Risk Management, and Regulatory Considerations

TARGET AUDIENCE

All Supervisory Levels, New entrants to the oil and gas industry, business development managers, finance and legal professionals in energy sectors, geoscientists, petroleum engineers, operations staff, and anyone seeking a broad understanding of the technical and commercial aspects of oil and gas exploration and production.

METHODOLOGY

The course uses a combination of technical briefings, case study reviews, economic analysis workshops, group discussions, practical exercises, and real-world examples to connect technical

operations with commercial decision-making.

CONCLUSION

Upon completing the course, participants will have a firm grasp of the upstream oil and gas business, bridging technical knowledge with commercial insight, and will be better equipped to participate in E&P projects or support upstream business activities.

DAILY AGENDA

Day 1: Introduction to the Oil and Gas Industry and Upstream Value Chain

Gain an overview of the industry structure, upstream operations focus, and key industry players from exploration to production.

Day 2: Exploration and Reservoir Appraisal Fundamentals

Learn about geological surveys, seismic techniques, reservoir modeling, and exploration well testing processes.

Day 3: Drilling Operations and Well Completion Basics

Understand drilling project phases, drilling rig components, wellbore construction, casing, cementing, and well completion techniques.

Day 4: Production Operations and Enhanced Oil Recovery (EOR)

Review surface production facilities, oil and gas separation processes, artificial lift methods, and EOR techniques to optimize field performance.

Day 5: Commercial Aspects: Project Economics, Risk, and Regulation

Analyze upstream project financials, economic evaluation tools, investment risks, and regulatory, environmental, and social governance (ESG) considerations.

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