



Oil & Gas Exploration & Production

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5 days training course

For detailed information on training course dates, please click the link:

[Oil & Gas Exploration & Production.](#)

Course Introduction:

This comprehensive training program on Oil & Gas Exploration and Production provides an in-depth look at the upstream oil and gas industry. It covers essential concepts from geoscience, engineering disciplines, and economics, focusing on the processes and techniques involved in the exploration, production, and commercialization of oil and gas resources. Whether you are new to the industry or have experience in other sectors, this course will offer valuable insights into the industry's key practices, safety protocols, and environmental considerations.

Course Objectives:

Upon completing this course, participants will be able to:

- Understand the key geoscience and engineering disciplines that contribute to oil and gas exploration and production.
- Learn how oil and gas reserves are located, extracted, and managed.
- Gain knowledge of the financial, contractual, and regulatory frameworks in the oil and gas industry.
- Understand the principles of reservoir and well engineering to optimize oil and gas extraction.
- Comprehend the critical role of field development planning, economics, and decision-making in maximizing resource potential.
- Explore safety, environmental, and corporate responsibility practices in the oil and gas industry.

Who Should Attend:

- Early-career professionals within the oil and gas or energy sectors.
- Service sector employees who support the oil and gas industry.
- Commercial, financial, legal, and insurance professionals with interests in energy.
- Regulatory professionals from government and non-government organizations involved in oversight of the oil and gas industry.

Course Outline:

Day 1: Geoscience Disciplines in Oil & Gas Exploration

- Industry Overview: Key perspectives on the upstream oil and gas industry, including the asset lifecycle, value chain, and industry players.
- Geology: Understanding the formation of oil and gas and the conditions necessary for a functioning petroleum system.
- Geophysics: Using seismic and survey techniques to identify geological structures that may contain oil and gas.
- Petrophysics: The physical and chemical properties of rocks and fluids, and how this affects oil and gas extraction.

Day 2: Engineering Disciplines in Oil & Gas Production

- Reservoir Engineering: Efficiently draining oil and gas from reservoirs using natural and enhanced recovery techniques.
- Well Engineering: Planning, drilling, testing, and decommissioning oil and gas wells, and improving well performance.
- Facilities Engineering: Designing, constructing, and operating equipment and infrastructure for oil and gas transportation to refineries.

Day 3: The Integrated Development Team

- Field Development Planning: Collaborating across disciplines to determine the best strategy for developing a reservoir, involving scientific, commercial, and engineering teams.

Day 4: Petroleum Economics & Decision-Making

- Petroleum Economics: Using cash flow analysis, time value of money, and investment indicators to plan cost-effective oil and gas developments.
- Decision Analysis: Tools and techniques like decision trees, sensitivity analysis, and Monte Carlo simulations to make rational, efficient investment decisions.

Day 5: Commercial, Safety, and Environmental Considerations

- Production Contracts & Licences: Understanding the legal, fiscal, and contractual conditions for acquiring rights to produce oil and gas.
- Petroleum Resources Management: Calculating, classifying, and reporting oil and gas reserves in compliance with international standards.
- Corporate Responsibility: Ensuring projects are executed safely, sustainably, and with respect for the environment and local communities.



DOCUMENTATION

The **MTC team** has meticulously prepared **high-quality training materials** for distribution to all delegates.

CERTIFICATES

An **accredited Certificate of Completion** will be awarded to participants who successfully attend and complete the program.

SCHEDULE

Course sessions are scheduled as follows:

- **Morning Session:** 09:00 AM – 1:00 PM
- **Afternoon Session:** 01:00 PM – 05:00 PM

REGISTRATION & PAYMENT

To register, please complete the **registration form** available on the course page and submit it with your **preferred payment method**. Alternatively, you can contact us via **email or WhatsApp** for assistance.

TRAVEL & TRANSPORT

We ensure a **seamless travel experience** by providing **airport-hotel-airport** transfers for all participants.