



International Petroleum Management of Oil and Gas Course

21 February – 4 March 2027
Cairo (Egypt)



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Introduction:

Oil and gas are among the world's most critical resources and are pivotal in driving the global economy. Exploration, production, refining, and distribution involve the most complex and capital-intensive processes and require state-of-the-art technology.

This international petroleum management of oil and gas course has been designed to teach participants about oil & gas production technologies, the chemistry of petroleum and the refining processes, the oil & gas exports and imports business, and best business practices.

The international petroleum management of oil and gas training course will help participants better understand the international oil and gas business value chain. If you're keen on delving into the intricate world of oil and gas management, consider exploring an International Petroleum Management course.

Targeted Groups:

- Corporate Planners.
- Senior oil and gas managers.
- Earth scientists and engineers.
- Investment Bankers and Fund Managers.
- Investment analysts.
- Media analysts and commentators.
- Government agencies - Regulators.
- Anyone must understand the oil and gas industries' structure, operations, and economics.

Course Objectives:

At the end of this international petroleum management of oil and gas course, the participants will be able to:

- Understand how the oil and gas and energy industries have organized to operate effectively and efficiently.
- Recognize the latest game-changing technologies, such as seismic, thriving logging, horizontal drilling, fracking, and gas-to-liquid conversion.
- Distinguish the renewable sources of energy and the future trends in solar, wind, wave, hydro, geothermal, and nuclear energy, as well as the methodology to compare the energy costs of each source.
- Understand the benefits of integrating refineries with petrochemicals.
- Understand how the oil and gas industries have organized to operate effectively and efficiently.

Targeted Competencies:

At the end of this international petroleum management of oil and gas training, the target competencies will be able to:

- The critical success factors of oil and gas operations are seismic, wireline services, drilling, fracturing, well completion, production, and processing for export.
- Recoveries through the Primary, Secondary, and Enhanced Oil Recovery Techniques.
- Shale oil and gas production potential in different regions of the world.
- Renewable Energy Sources and Their Comparative Costs.
- Energy Economics, Project Evaluation, and Decision-making Skills.
- Crude Oil and Gas Supply, Transportation, Marketing, Trading, and Storage.

Management of Oil and Gas:

This international petroleum management of oil and gas program provides specialized training in the dynamic realms of the international petroleum industry, focusing on essential skills and strategies for effective petroleum management.

Enrolling in this certificate program will give you comprehensive insights into the global management of oil and gas resources. You will learn critical concepts such as exploration, production, distribution, and strategic decision-making in the international oil and gas sector.

This course equips participants with the knowledge and tools necessary to navigate the complexities of the international petroleum market, preparing them for leadership roles in this vital industry. If you're seeking to advance your oil and gas management career, an International Petroleum Management certificate could be the key to unlocking exciting opportunities in this dynamic field.

Course Content:

Unit 1: Sources, Origin, and Nature of Petroleum:

- Industry Overview.
- Chemistry of fossil fuels.
- Origins of hydrocarbon deposits.
- Basic petroleum geology.
- Exploration methods and activities.

Unit 2: Well Evaluations and Drilling Operations and Reservoir Management:

- Types of wells.
- Well Evaluations.
- Drilling Operations.
- Well, Completions.
- Oil and Gas Reserve Estimates.
- Volumetric Calculations - Original Oil and Gas In-Place.
- Reservoir Depletion Mechanisms.
- Declining Curve Analysis.

Unit 3: Conventional and Unconventional Production:

- Unconventional oil and gas.
- Shale Oil and Gas, Tight Gas, and Heavy Oil Recovery.
- Oil recovery methods.
- Primary, Secondary, and Tertiary.
- Enhanced Oil Recovery Techniques.
- Reservoir Management - maximize the ultimate recovery of oil.

Unit 4: New Oil and Gas Field Development and Economic Evaluation:

- Typical Decision Yardsticks.
- Petroleum Economics Analysis:
- Net Present Value.
- Internal Rate of Return.
- Profitability Index.
- Unit Tech Cost.
- Economic Limit.

Unit 5: Oil and Gas Contracts and Joint Ventures:

- Need for collaboration between parties - NOCs and IOCs.
- Alignment of interests.
- Oil and Gas Contracts.
- Types of Contracts.
- Concession agreements.
- Production Sharing Agreement/Contract PSA/PSC.
- Technical Service Contract/Agreement TSA.
- Joint Venture and Service Agreements.

Unit 6: Petroleum Fiscal Regimes:

- Comparison of fiscal regimes.
- Auction theory and methods.
- Similarities among fiscal systems.
- Accounting aspects of fiscal systems.
- Division of revenues and profits.
- Concession.
- Concession rentals.
- Unitisation agreements.
- Royalties.
- Profit tax.
- Corporate tax.
- Ring-fencing.
- State participation.
- Signature bonus.
- Production bonus.
- Bid for leases.

Unit 7: The Chemistry of Petroleum and the Refining Processes:

- Crude and Product Quality.
- Crude oil refining operations.
- Crude Oil Fractions.
- Crude Oil Refinery Products and Processes.
- Refinery Configurations - Separation, Conversion, and Treatment.
- Refining Complexity.
- Pipelines.
- Storage.
- Treatment and Blending.
- Utilities.

Unit 8: Refining Economics - Environmental Aspects:

- Refinery economics.
- Benefits of Integrating with Petrochemicals.
- Global Oil Reserves, Production, and Trade Movements.
- Crude Oil and Refining Gross Product Worth GPW.
- Freight.
- Netback and Refining Margin.
- Vessel chartering.
- Environmental aspects.

Unit 9: Oil and Gas Exports and Imports Business:

- Organization of Petroleum Exporting Companies OPEC.
- Other international and multinational organizations.
- International Energy Agency IEA.
- Oil Markets - Crude pricing regimes.
- Transportation Logistics - Pipelines, Terminals, and Storage.
- Crude Oil Tankers.
- World's Major Pipelines.
- World's Major Terminals and Refineries.
- Transportation Logistics - Losses.
- Bottlenecks and Chokepoints.

Unit 10: Pricing, Trading, Markets, and Risk Management:

- Crude oil Benchmarks.
- Crude price assessment.
- Oil Trading.
- Total Barrel Economics.
- Oil Markets - Futures.
- Exposure - Price.
- Hedging - Risk management.
- Pricing Management Considerations.
- Derivatives.