MERCURY

Upstream, Midstream, and Downstream in Oil and Gas Operations

25 – 29 April 2027
Cairo (Egypt)



Dubai - UAE: +971 4 450 5697
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Amman - Jordan: +962 79 712 3347

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Ref: 15443_308086 **Date:** 25 – 29 April 2027 **Location:** Cairo (Egypt) **Fees:** 4000 Euro

Introduction:

Oil and natural gas are major industries in the energy market and play a role in the global economy as the world's primary fuel source. This Upstream, Midstream, and Downstream in Oil and Gas Operations course is for professionals examining the oil and gas business and serving as a research aid to sources worldwide. It covers a brief oil and gas industry history, an overview of companies and organizations, statistics and pricing resources, and regulations.

The industry is categorized into three main segments: upstream, which involves oil and gas exploration and production; midstream, which encompasses transportation and storage; and downstream, which includes refining and marketing. This Upstream, Midstream, and Downstream in Oil and Gas Operations course aims to deepen understanding and evaluate and enhance decision-making perspectives.

Participants will explore the crucial aspects of exploration and production in the upstream oil and gas industry, delve into upstream trends, and address upstream challenges. A focus on analytics in oil and gas upstream will shed light on the growing role of data in driving industry decisions. An overview of upstream oil and gas and the definition of upstream in oil and gas will provide critical foundational knowledge.

This Upstream, Midstream, and Downstream in Oil and Gas Operations course will clarify midstream oil and gas, emphasizing midstream operations within the oil and gas industry upstream, midstream, and downstream continuum. Participants will benefit from understanding the midstream oil and gas industry and its definition, encompassing key concepts and terms such as oil and gas midstream.

The downstream process will be elaborated upon, explaining what is downstream of oil and gas and considering the analytics in oil and gas downstream. Participants will define downstream oil and gas, ensuring a full grasp of the end processes involved in the industry, including the downstream oil and gas process.

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Targeted Groups:

- Business Development managers.
- Corporate Planning Professionals.
- Geoscience and Engineering professionals.
- Refinery professionals.
- Supply Planners and Scheduling professionals.
- Government regulators.
- Law professionals.
- Tax and Finance advisors.
- Auditing personnel.
- Compliance officers.
- Equity analysts and Bankers.
- Joint Venture officers.
- Negotiators and Contracting professionals.
- Trading professionals.

Course Objectives:

At the end of the Upstream, Midstream, and Downstream in Oil and Gas Operations course, participants will be able to:

- Gain a broad perspective of the oil business, exploration, drilling, and production.
- Boost their understanding of the technical and economic efficiencies gained upstream, applied through new technologies.
- Master petroleum economics, investment analysis, risk analysis, and petroleum project evaluation.
- Evaluate fiscal terms and conditions and compare world fiscal systems.
- Understand all upstream contracts concessionary, production sharing, service, and joint venture contracts.
- Discuss technical terms, concepts, and buzzwords with peers and clients confidently.

Targeted Competencies:

By the end of the Upstream, Midstream, and Downstream in Oil and Gas Operations training, participants will be able to:

- Basics of oil and gas exploration, production, and recovery economics.
- Essential concepts and best production practices in oil and gas supply, transportation, and trade.
- Fundamentals of fiscal terms and conditions and world fiscal system comparison.
- Details of upstream concessionary, production sharing, service, and joint venture contracts.
- Fundamentals of petroleum economics and investment evaluation.
- Coverage of critical business functions and processes in a competitive and low-price environment.

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Course Content:

Unit 1: Overview of the Oil and Gas Industry:

- Introduction to the Oil and Gas Supply Chain:
  - Overview of the upstream, midstream, and downstream sectors.
  - The interrelationship between different sectors.
  - Global impact of the oil and gas industry.
- Key Players in the Industry:
  - National and international oil companies.
  - Role of regulatory bodies and governments.
  - Impact of service companies and suppliers.
- Market Dynamics and Trends:
  - Current market trends affecting each sector.
  - Geopolitical influences on the oil and gas industry.
  - Technological advancements shaping the industry.

Unit 2: Upstream Operations:

- Exploration Activities:
  - Techniques for oil and gas exploration.
  - Importance of geological surveys and seismic data.
  - Role of exploration wells in identifying resources.
- Drilling and Well Completion:
  - Overview of drilling operations.
  - Types of drilling techniques used in upstream operations.
  - Oil and gas well completion processes and technologies.
- Production Processes:
  - Overview of extraction techniques.
  - Management of reservoirs and production optimization.
  - Key challenges in upstream production.

Unit 3: Midstream Operations:

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- Transportation of Oil and Gas:
  - Overview of transportation methods pipelines, tankers, rail, etc..
  - Importance of safe and efficient transportation.
  - Regulatory and environmental considerations.
- Storage and Distribution:
  - Storage facilities and their significance in the supply chain.
  - Distribution networks and logistics management.
  - Challenges in maintaining supply-demand balance.
- Processing and Refining:
  - Initial processing steps in midstream operations.
  - Role of refineries in converting raw materials.
  - Quality control measures in refining processes.

Unit 4: Downstream Operations:

- Refining and Petrochemical Production:
  - Overview of refining processes and technologies.
  - Key products derived from crude oil.
  - Introduction to petrochemical production and its significance.
- Distribution and Marketing:
  - Overview of the distribution of refined products.
  - Marketing strategies for different petroleum products.
  - Role of retail outlets and service stations.
- Environmental and Safety Considerations:
  - Importance of environmental regulations in downstream operations.
  - Safety protocols and risk management.
  - Innovations in reducing environmental impact.

Unit 5: Integration and Future Trends:

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- Integration Across Upstream, Midstream, and Downstream:
  - Importance of integrated operations for efficiency.
  - Case studies of successful integration in the oil and gas industry.
  - Challenges in integrating diverse operations.
- Digital Transformation in Oil and Gas:
  - Role of digital technologies in transforming operations.
  - Impact of data analytics and automation on efficiency.
  - Future trends in the digitalization of the oil and gas industry.
- Sustainability and the Energy Transition:
  - Importance of sustainable practices across all sectors.
  - Transition to renewable energy and its impact on the industry.
  - Strategies for oil and gas companies in adapting to energy transition.