



A - Z of the Petroleum Industry Training Course

4 - 8 April 2027
Cairo (Egypt)





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Introduction

This comprehensive oil and gas training course recognizes the need for professionals to have a thorough and broad understanding of petroleum industry management from A to Z and from upstream to downstream.

Oil and gas are the world's most important energy resources driving the global economy. The processes and systems required for oil and gas production, refining, and distribution are highly complex, capital-intensive, and require state-of-the-art technology.

This A-Z petroleum industry management training course will serve as an introduction to the petroleum industry. The A-Z petroleum industry management course will significantly assist those who need to progress to a detailed knowledge of the industry.

Enhancing and Understanding A and Z Petroleum Industry Management

Understanding the importance of the petroleum industry and mastering the intricacies of its operations and management can provide professionals with critical insights into the global energy landscape. A comprehensive petroleum industry training course can be a valuable asset for those seeking to enhance their expertise in vital areas such as supply chain management, inventory management, risk management, and safety within the petroleum sector.

Further specialization can be found in the development of the petroleum industry and the petroleum safety training course, which cater to professionals focused on ensuring the safe and efficient exploration and exploitation of oil and gas resources.

Tailored this A-Z petroleum industry management course like management in the oil and gas industry and petroleum industry process courses are essential for those aiming to take on leadership roles and drive innovation in the field.

Additionally, for individuals seeking to deepen their understanding of the strategic aspects of the petroleum industry, targeted programs focusing on petroleum management can provide essential knowledge and skills. By covering the A-Z of oil and gas, participants can confidently navigate the complexities of this dynamic and influential industry.

Targeted Groups

- Technologists.
- Mechanical engineers.
- Safety and Inspection engineers.
- Operations, Maintenance, or project engineers.
- Anyone requiring a broad understanding of the structure, operations, and economics of the oil and gas industries.

Course Objectives

At the end of this A-Z petroleum industry management course, the participants will be able to:

- Identify critical process operations related to the exploration and production of upstream industry feedstock.
- Analyze the essential operations of processes related to refining and production of downstream products.
- Recognize the total spectrum of the oil and gas industry and the challenges faced.
- Develop skills to assist in the evaluation of corporate opportunities.
- Understand the structure of the oil and gas business.

Targeted Competencies

Upon the end of this A-Z petroleum industry management course, the target competencies will be able to:

- Details of oil and gas processing, including exploration, refining, storage transportation, and retailing.
- Understanding of the value chain from the well to the consumer.
- Knowledge of the fundamental technologies of both upstream and downstream oil and gas industries.
- Understanding of the ways the oil and gas industries are organized to operate effectively and efficiently.
- Develop the necessary skills to evaluate and make effective decisions related to the oil and gas industry.

Course Content

Unit 1: Origins of Petroleum

- Origins of oil and gas.
- Petroleum chemistry.
- Petroleum geology.
- Exploration and production of petroleum.
- Types of well.
- Development of oil and gas fields.

Unit 2: World Energy Markets

- Pipeline geopolitics.
- OPEC Organization of the Petroleum Exporting Countries.
- EIA Energy Information Administration.
- Statistical review of petroleum consumption and supply.
- Distribution transmission and transportation.
- Tank farms and storage.

Unit 3: Refinery Operations

- Physical separation - distillation.
- Chemical conversion processes.
- Blending.
- Refinery complexity.
- Refining margins.

Unit 4: Gas Processing

- Inlet separation, dehydration/dew point control.
- Contaminants and pipeline gas specifications.
- Amine gas sweetening.
- Physical solvent processes.
- Sulfur recovery.
- Gas compression and liquefaction.



Unit 5: Oil and Gas Management

- Cost estimation of oil and gas facilities.
- Pricing, trading, markets, and risk management.
- Crude benchmarks and price estimation.
- Derivatives - futures, options, and Swaps.
- Climate change and renewable energy.