



Mini Master in the Petroleum Industry Training Course

5 – 9 April 2027
Madrid (Spain)





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Introduction

This comprehensive petroleum training course recognizes the need for professionals to have a thorough and broad understanding of the Petroleum Industry 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 petroleum industry in the oil and gas training course will serve as an introduction to the petroleum industry. The petroleum industry in the oil and gas course will significantly assist those who need to progress to a detailed knowledge of the industry.

Advanced Management and Engineering in the Oil and Gas Industry

For professionals who aim to deepen their expertise and advance their careers, pursuing an MBA in Oil and Gas Management or a Master's in Oil and Gas Engineering might be the ideal pathway. This qualification reveals the complexities of the industry.

The petroleum industry in the oil and gas course provides strategic and leadership skills, making them some of the best oil and gas MBA options for those who want to excel in high-level positions.

To cater to the ongoing need for specialized knowledge, short courses in oil and gas, as well as more extensive courses for the oil and gas industry, are available. This petroleum industry in the oil and gas course is designed to provide targeted learning experiences, equipping professionals with the latest insights and skills required to succeed in a dynamic sector.

Understanding what the petroleum industry is and its impact on modern society is crucial. By diving deep into the course related to the oil and gas industry and learning about the ins and outs through a comprehensive petroleum industry training course, participants can gain a strong foundation in how this sector shapes the global landscape.

Targeted Groups

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

Course Objectives

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

- Identify critical process operations related to the exploration and production of upstream industry feedstock.
- Analyze 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 petroleum industry in the oil and gas course, 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 wells.
- Development of oil and gas fields.

Unit 2: World Energy Markets

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

Unit 3: Refinery Operations

- Physical separation and 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 in futures, options, and swaps.
- Climate change and renewable energy.