



Mini Master in Petroleum Industry



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Introduction:

This mini-master course in the petroleum industry is designed to equip participants with a multidimensional understanding of the global Petroleum Industry, encompassing petroleum products' exploration, extraction, production, refining, transportation, and marketing.

The Petroleum Industry process is complex and multi-faceted, demanding a grasp of state-of-the-art technology and an appreciation for the intricate supply chain from oil fields to consumers.

By engaging in this intensive petroleum industry training, professionals will develop a meaningful perspective on the petroleum industry and its significant role in driving the economy.

Understanding the Global Petroleum Industry:

In this crucial module, we delve into the dynamics of the global petroleum industry, understanding the significance of geopolitical factors, market trends, and the evolution of technology in the exploration and extraction of petroleum resources.

Participants will gain insights into the global contexts influencing the petroleum industry, which is essential for anyone aiming to master petroleum dynamics or to engage with the industry at a macroeconomic level.

Targeted Groups

- New oil industry members and staff are from integrated functions such as supply, trading, logistics, and crude marketing.
- Professional personnel requires sector knowledge, including legal contracts, pricing, refining, markets, and risk management.
- Mechanical Engineers.
- Safety and Inspection Engineers.
- Operations, Maintenance, or Project Engineers.
- Technologists.
- Anyone must understand the oil and gas industries' structure, operations, and economics.

Course Objectives:

By the conclusion of this petroleum industry course, participants will:

- Identify critical process operations related to the exploration and production of upstream industry feedstock.
- Analyze the essential operations and processes related to refining and production of downstream products.
- Recognize the complete 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 petroleum oil and gas business.

Targeted Competencies:

At the end of this petroleum industry training, participants' competencies will:

- Oil and gas processing details, including exploration, refining, storage transportation, and retailing.
- Understand the value chain from the well to the consumer.
- Understand the fundamental technologies of upstream and downstream oil and gas industries.
- Explore insights into how 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: Crude and Products Value:

- Crude and product value.
- Know how to calculate gross product worth and back.
- Understand crude and product quality.
- Explore tanker freight and World scale.
- Logistics of oil, such as Vessel chartering.
- Crude contract terms and conditions.
- International Crude pricing.
- How do you value crude oil based on product market prices?
- Crude oil markets.

Unit 2: World Energy Markets:

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

Unit 3: Refinery Operations:

- Physical separation - Distillation.
- Blending.
- Refinery Complexity.
- Refining margins.

Unit 4: Gas Processing:

- Sulfur Recovery.
- Explore Gas compression and Liquefaction.
- How is gas processed?
- What is a gas processing facility?
- What are the three objectives of gas processing?
- What is the process of refining natural gas?



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Unit 5: Oil and Gas Management:

- Cost estimation of oil and gas facilities.
- Explore crude Benchmarks and price estimation.
- Derivatives - Futures, Options, and Swaps.
- Climate Change and Renewable Energy.