

**Course Name: A - Z of the Petroleum Industry**

**Reference Code: Gas 704**

**About the course:**

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 training course will serve as an introduction to the petroleum industry and will greatly assist those who need to progress to a detailed knowledge of the industry Course

**Objective:**

By the end of this training course, participants will be able to:

Identify key process operations related to the exploration & production of upstream industry feedstock

Analyze the key process operations 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

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Tel.: +966 13 361 5552

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Khobar Gate Tower  
King Fahad Street , Khobar 31952  
Tel.: 00966133308334

### Who Should attend?.

This training course is designed for both technical and non-technical personnel as well as operational staff at professional levels employed in refineries, petrochemical, and oil and gas process industries. The course is designed to be of substantial benefit to personnel within the Oil and Gas Industries such as:

- 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 Methodology:

This training course is designed to be a hands-on, stimulating experience. The training course is highly interactive with many discussion and practice sessions.

- ☑ Relevant computer simulations and videos .
- ☑ Copies of all presentation material.
- ☑ Variety of Learning Methods.
- ☑ Pre-test and final test.
- ☑ Case Study
- ☑ Training Groups.
- ☑ Presentation.
- ☑ Lectures

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**Course Outline:**

**Day One:** Origins of Petroleum

Origins of oil & gas

Petroleum chemistry

Petroleum geology

Exploration & production of petroleum

Types of Well

Development of Oil and gas fields

**Day Two:** 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

**Day Three:** Refinery Operations

Physical separation – Distillation

Chemical conversion processes

Blending

Refinery Complexity

Refining margins

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**Day Four: Gas Processing**

Inlet separation, Dehydration/Dewpoint control

Contaminants & Pipeline Gas specifications

Amine Gas Sweetening

Physical Solvent Processes

Sulphur Recovery

Gas compression & Liquefaction

**Day Five: Oil and Gas Management**

Cost estimation of oil and gas facilities

Pricing, Trading, Markets, Risk Management

Crude Benchmarks & price estimation

Derivatives – Futures, Options and Swaps

Climate Change & Renewable Energy

Course Exercises, Evaluation and roundup

**Time: 08:00 AM -03:00 PM Numbers of hours: 35 Hours**

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