



## Basic Petroleum Technology

15 - 19 Jul 2024  
Barcelona (Spain)



# Basic Petroleum Technology

**Ref.:** 15123\_242978 **Date:** 15 - 19 Jul 2024 **Location:** Barcelona (Spain) **Fees:** 5500 **Euro**

## Introduction:

This workshop provides practical guidance in the application of the techniques of the economic analysis currently used in oil & gas. Techniques for predicting profit, production, costs, and cash flow enable the analyst to evaluate decision alternatives for optimum results. Understanding economic indicators, risk, and uncertainty, different economic structures such as royalty/tax regimes and production sharing contracts, enhance the quality and the value of economic analysis.

## Targeted Groups:

The course is designed for non-petroleum professionals, secretarial, administrative, management, field support, accounting, purchasing, economics, legal, finance, human resources, drafting, land and data processing personnel, and those interested in obtaining a general understanding of the petroleum industry.

## Prerequisite:

The course will include many exercises aimed at enhancing each participant's capability to conduct various petroleum problems. Some short films will be presented during the course to enhance the participants' knowledge about petroleum operations. Additionally, the seminar assumes no or limited prior knowledge of the topics covered in the course.

## Course Objectives:

At the end of this course the participants will be able to:

- Familiarize the participants with global oil & gas-related statistics, such as reserves, production, consumption, and exports.
- Familiarize the participants with both upstream, middle stream, and downstream operations and related facilities.
- Familiarize the participants with various methods and techniques used to explore, drill, produce, treat and transport oil, gas, and their products.
- Gain an overview of the typical oil & gas operations facilities from the wellhead, flow lines, separators, tanks, pumps and compressors, pipelines, gas treatment and processing, refinery operations, etc
- Understand the basic concept with regards to evaluating oil & gas reserves, artificial lift, and enhancing recovery.
- Understand the challenge associated with this industry such as offshore operations, horizontal drilling, and other safety concerns.
- Get a general feel for petroleum economics and risk analysis.

## **Course Content:**

### **Unit 1:**

- Energy Types:
- Global Statistics
- Oil & Gas Reserves, Production, Export, and Consumption
- The Need for Oil & Gas
- The Upstream Operations
- Origin of Oil & Gas
- Reservoir types
- Exploring for Oil & Gas
- Seismic Technology

### **Unit 2:**

- Drilling an exploration well
- Directional Drilling
- Offshore Drilling
- Well Testing & Completion
- Well Stimulation & Workover
- Rock & Fluid Properties

### **Unit 3:**

- Oil & Gas Production
- Artificial Lift Methods
- Recovery Mechanisms
- Reservoir Simulation
- Pressure Maintenance
- Enhanced Oil Recovery
- Surface Facilities

### **Unit 4:**

- The Downstream Operations
- Oil Storage & Transportation
- Gas Treatment & Processing
- Refinery Operations & Products
- Petrochemical Industry

### **Unit 5:**

- The Role of Technology
- Health, Safety & Environment
- Corrosion Protection



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