

INTRODUCTION TO PETROLEUM OPERATIONS

**A 2-day course on the A to Z of petroleum exploration,
drilling and production**

Introduction

This 2-day course is designed for non-technical personnel who work in the oil and gas industry. The main objective of the course is to give them understanding on how petroleum is explored, drilled and produced. By attending this course, the participants will know and appreciate the company activities, policies and priorities.

5 Crucial Benefits of Attending

Understand how the oil and gas are explored, drilled and produced
Gain insight on the structure and needs of oil and gas companies
Perform your job better and contribute more to your company
Anticipate and respond faster to the needs of the O & G industry
Communicate and presenting your ideas more easily to the various departments in the O & G companies

Course Content

ROCKS AND GEOLOGY

Nature of the earth's crust
Sedimentation process
Types of rocks and their characteristics
The origin of oil and gas
Types of petroleum deposits
Permeability and porosity

EXPLORATION METHODS

Geological survey
Seismic survey
Gravity survey

Magnetic survey

DRILLING OPERATIONS

Exploration vs. development drilling
Drilling rigs and equipment
Casing and cementing
Drill pipes and drill collars
Bottom hole assembly and bits
Blowout prevention system
Drilling problems and solutions
Mud logging operation
Electric logging methods
Directional and horizontal wells
Drilling fluids: types and uses
Floating drilling
Drill stem testing (DST)
Coring and core analysis
PVT analysis

WELL COMPLETION AND PRODUCTION

Well completion equipment and types
Acidizing and fracturing
Sand control methods
Tubing and packers
Flow control equipment
Wireline operations
Artificial lifts: Gas lifts and ESP
Gas oil ratios and water production
Production problems and solutions
Christmas trees and well heads

WORKOVER OPERATIONS AND PROCEDURES

The reason for workover
Types of workover
Equipment used in workover
Workovers techniques and procedures
Snubbing and hydraulics workover
Coiled tubing units and operations

OIL AND GAS HANDLING FACILITIES

Oil and gas processing
Types and uses of separators
Emulsion treatment
Gas dehydration
Storage tanks
Pipeline pigging operations
Corrosion control systems

OIL & GAS RESERVOIRS

Types of reservoirs
Estimating petroleum reserves

Reservoir drive mechanisms
Production forecasting
Well testing
Enhanced oil recovery
Waterflood and steamflood

Most Suitable For

Lawyers
Contracts Personnel
Secretaries and administration assistants
Accountants and finance staff
HR staff
Purchasing agents
Logistics and warehouse personnel
Bankers
Anyone new to the O&G industry

Comment from Previous Participants

This course is very important to employees who work for oil companies
It really improved my knowledge about oil and gas operations
Competent instructor - clear explanation
It gives me new motivation to develop my career within the company