

Fundamentals of Oil & Gas Industry

Duration: 8 Hours (1 day)

Course Overview:

A complete overview of the oil and gas industry from its origin, exploration methods and production processes. Oil & Gas supports the very fabric of our modern, connected, switched-on society and has become central to our way of life. From car fuel, to electricity, to petrochemicals and plastics, Oil & Gas as an energy source plays a vital role in our current energy mix. If you're new to the industry or ever wondered how it all works, this is the course for you! Become familiar with the various phases of the Oil and Gas value chain, upstream, midstream and downstream – recognize key industry players and understand the lifecycle of an oil and gas field from seismic surveys and geology to drilling engineering and production and all the way through to decommissioning.

Target Audience:

- Junior Engineers
- Chemical Engineers
- Process Engineers
- Design Engineers
- Plant Engineers
- Engineering Refreshers

Course Outline:

Day 1

Module 1: Characteristics and uses of Oil & Gas

- Introduction
- Characteristics and uses of Oil & Gas
- What is Crude Oil
- Oil Properties
- What is natural gas

Module 2: History and Structure of the Modern Oil & Gas Industry

- History and Structure of the Oil & Gas Industry
- Top Global Oil Locations & OPEC
- Major Players in the Oil & Gas Industry
- Formation of Oil and Gas
- Creating an Oil & Gas Field

Module 3: Finding Oil & Gas

- Survey Methods
- Seismic Surveys

Module 4: Drilling Operations

- Drilling Stages & Drilling Rigs
- Drilling Fluid, Drill Bits & Process
- Well Logging & Characteristics of a Well

Module 5: Production & Platform Processing

- Production & Perforations
- Platform Processing

Module 6: Maximizing Recovery

- Primary, Secondary and Tertiary Recovery
- Maximizing Recovery & Reservoir Drive Mechanism

Module 7: Transport, Storage & Refining

- Transportation, Storage & Refining
- Decommissioning

Module 8: Decommissioning

- Working Offshore & Safety