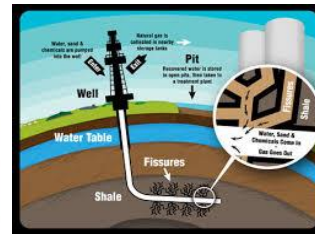
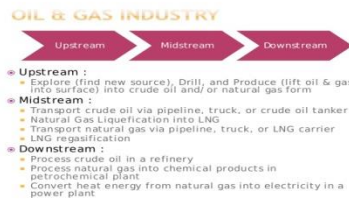


Introduction to the Oil & Gas Industry



INTRODUCTION

This two-day Introduction to the Oil & Gas Industry training course is extremely popular course that provides a wide-ranging and practical industry overview.

Aimed at those new to the oil & gas industry, and non-technical personnel, the course covers each key phase of the exploration and production industry.

The course is designed to provide oil and gas professionals the opportunity to gain a technical and commercial understanding of the industry fundamentals.

On attending this Introduction to the Oil and Gas Industry training course you will learn:

- The scientific origins of oil and gas
- The commercial issues underpinning hydrocarbon exploration and development
- The role of government and its agencies
- Oil and gas terminology
- The technological process of exploration
- The technological process of drilling
- The technological process of production
- The challenges of decommissioning

Training Course Content

- History of the Earth
- Petroleum Geology

- History and Geopolitics of the oil industry
- Uses for Oil and Gas
- The Big Picture
- Upstream
- Midstream
- Downstream
- Exploration and Production
- Exploration
- Appraisal
- Development
- Production
 - ✓ Drilling an Exploration Well
 - ✓ Directional Drilling
 - ✓ Offshore Drilling
 - ✓ Well Testing & Completion
 - ✓ Well Simulation & Workover
 - ✓ Rock & Fluid Properties
 - ✓ Oil & Gas Production
 - ✓ Reservoir Simulation
 - ✓ Pressure Maintenance
 - ✓ Enhanced Oil Recovery
- Economics
- Safety, Health & Environment
- Un conventional Reservoirs

Duration of course: 5 days

Day one

Petroleum geology - the origins of hydrocarbons

- The formation of petroleum
- Oil and gas reservoirs
- Reservoir rock and fluid properties

World energy supply and demand

- Oil and gas supply and demand
- Classification of reserves
- Oil pricing and market issues
- Non-conventional oil, gas and renewables

Day Two

Ownership and exploitation of reserves

- Licensing/concessions
- Joint-venture agreements
- Production-sharing contracts

Exploration and appraisal

- Geological and commercial factors necessary for successful exploration and appraisal
- Seismic surveys

Drilling

- Drilling rigs
- Equipment and processes involved in drilling a well
- Completing a well and preparing it for production
- Horizontal drilling
- Well workover operations

Day Three

Field development

- Onshore/offshore developments
- Shallow/deep water developments
- Gas field developments
- Aspects of well and facilities design

Day Four

Petroleum economics

- Field development decision-making
- Key economic indicators and their uses

Health, safety and the environment

- Safety
- The environment

Petroleum production and treatment

- Reservoir production mechanisms
- Artificial lift systems
- Well stimulation - fracturing, acidising and sand control
- Production and treatment of reservoir fluids
- Processing the production from oil and gas fields

Day Five

Maintenance and logistics

- Well and facility maintenance
- Reliability-centred maintenance
- Corrosion and how it is controlled
- Transportation of personnel and materials

Decommissioning

- Possible decommissioning solutions
- Scope of decommissioning obligations

Future issues and challenges

- Meeting future energy demand
- Environmental sustainability
- Security of supply

Who should attend?

This Introduction to the Oil & Gas Industry training course is suitable for personnel from all sectors of the oil and gas industry – government agencies, authorities, operators, contractors and service companies.

The course is especially valuable for newcomers to the industry and non-technical personnel working in areas like HR, finance, IT, contracts and administration who feel they could benefit from gaining a wider appreciation of the big picture.