

## **Introduction to the Oil & Gas Industry (Delivered via Remote Instructor Led Training)**

### **Course Objectives**

This wide-ranging and practical industry overview covers each key phase of the exploration and production industry. It offers oil and gas professionals the opportunity to gain a technical and commercial understanding of the industry fundamentals.

### **What Will You 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

### **Who Should Attend**

This course is extremely popular with personnel from all sectors of the oil and gas industry – government agencies, authorities, operators, contractors and service companies. It 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’.

### **Course Content**

This course has been designed to be delivered via a Remote Instructor Led platform and consists of 5 modules. These will be delivered over 2½ days – to allow for introductions the first session will run for 2½ hours followed by four x 2-hour sessions. Each session will have a short break and allow time for questions and discussions.

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### **Petroleum Geology – The Origins of Hydrocarbons**

- Key definitions and brief industry history
- The formation of petroleum
- Oil and gas reservoirs
- Reservoir rock and fluid properties

### **The Big Picture**

- Ownership & control of Hydrocarbons
- Joint Ventures
- World energy supply and demand
- Classification of reserves
- Oil pricing and market issues

### **Exploration, Appraisal and Drilling**

- Geological and commercial factors necessary for successful exploration
- Seismic surveys
- Drilling rigs
- Equipment and processes involved in drilling a well

### **Field Development, Economics and HSE**

- Onshore/offshore developments
- Shallow/deep water developments
- Key economic indicators used in field development decision making
- Health, Safety and Environmental considerations

### **Production, Decommissioning and The Future**

- Reservoir production including Artificial Lift
- Production and Treatment of Reservoir Fluids
- Maintenance and Logistics
- Decommissioning
- Future issues and challenges

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### **Testimonials**

*"It was all perfect from the first communication with MDT to register, very helpful. The instructor is one of the best I have come across. Coming from an accounting background the course has added a lot to my knowledge on the technical side."*

**Tasneem Abdelgadir, Petronas**

*"Great introduction to the oil and gas industry that filled in the (vast) gaps in my knowledge. Great to be able to ask lots of questions and get answers."*

**Vince McCaughey Premier Oil**

*"One of the very few courses where I felt like "keep on going" with the course. Best part was the industry examples and stories to connect the theory. Very good energy over the two days."*

**Harit Famish, Maersk**

*"I came to the course with very little understanding of the industry whilst having to have very technical conversations with my clients. I have far greater confidence now in my knowledge, and this will have a large positive impact on my role."*

**Ashkan Kazeonian, TSC Inspection Systems**

*"I really enjoyed learning. It was amazing how much I learnt in just two days. The course was the perfect thing I needed, huge eye opener. I wish to attend a course on leadership and people management skills in the future. Thanks MDT!"*

**Victoria Minja, Ophir Energy**