



Oil and Gas Essentials



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Meirc
Training & Consulting

Why Attend

The global oil and gas industry is under sweeping changes due to international pricing competition and with the dynamics of the industry changing, with aging asset infrastructure and the need to decommission equipment in a safe and environmentally friendly way. However as well as aging infrastructure, there is also an aging workforce which is leaving the industry and taking valuable knowledge and expertise with it. With the industry in need of a new workforce to take it strongly in to the future, this clear practical and exciting course gives you the foundation knowledge to help you on your oil and gas industry career.

Course Methodology

The material used in the training course will be based on exercises as well as regional and international case studies. Participants will frequently work in pairs with one another as well as in larger teams.

Course Objectives

By the end of the course, participants will be able to:

- Recall the structure and lifecycle of the oil and gas industry, and understand how the industry functions from upstream, through midstream to downstream
- Recognize how oil is formed, found, recovered/extracted, processed, transported and sold
- Describe terminologies and functions, including installations, production facilities and onshore/offshore operations and support requirements
- Explain oil and gas operations and the associated challenges, as well as the various systems monitoring and controlling equipment
- Examine why the industry is classified as a high risk safety critical industry

Target Audience

Anyone wishing to gain an overview or basic understanding of oil and gas, the industry or its operations. This includes, but is not limited to, anyone new to the oil and gas industry, contractors working with clients in the industry, or anyone within a non-technical role in the industry who is seeking a greater understanding of operations.

Target Competencies

- Principles of Oil Production
- Onshore/Offshore Operations
- Oil and Gas Operations
- Oil and Gas Safety

Course Outline

- Introduction to oil and gas and the industry
 - History of the industry
 - Scope of onshore operations
 - Scope of offshore operations
 - Global market outlook: energy requirements and statistics
 - Characteristics of oil and gas
 - Characteristics of rock
 - Origin of oil
 - Gas migration
 - Accumulation of oil and gas
 - Traps
- Upstream production and equipment
 - Production processes
 - Onshore
 - Offshore
 - Equipment requirements and uses
 - Onshore



- Offshore
- Risks and upstream exploration activities
 - Health and safety
 - Security
 - Quality management
 - Environmental management
 - Risk management
 - Exploration surveys
 - Obtaining drilling rights
- Oil and gas drilling
 - Drilling rigs
 - Bottom-supported units
 - Floating units
 - Land based units
 - Drilling a well
 - Bits and drilling fluid
 - Circulating system
 - Rotating systems
 - Power system
 - Hoisting system
 - Drilling personnel
 - Selecting a rig
 - Drilling from bottom-supported units
 - Drilling from floating units
 - Formation valuation
 - Well abandonment
 - Completion
 - Drilling platforms and land based units
 - Mobile offshore drilling units
 - Directional and horizontal drilling
 - Well completion
- Midstream, downstream and decommissioning
 - Processing requirements
 - Storage and its importance
 - Fuel transportation
 - Refinery
 - Unconventional explanations
 - Decommissioning



Location & Date

10 - 13 Nov, 2019

English

Dubai

Grand Millennium Business Bay

Fees: US\$ (including coffee breaks and a buffet lunch daily)

Per participant - 2019

US\$ 4400

Fees + VAT as applicable

UAE Tax Registration Number 100239834300003



Courses in Oil and Gas

Dates

Course Name

Language Location

Fees



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Page 5 of 6

Meirc Timeline

2018

Meirc celebrates its 60th anniversary

2015

Meirc relocates to its newly acquired HQ office in Bay Square, Business Bay, Dubai

2014

Meirc adds PLUS Specialty Training, a new division providing technical and industry-specific courses

2007

Meirc opens an office in Jeddah, Saudi Arabia

2004

Meirc opens an office in Abu Dhabi, UAE

1997

Meirc is the 1st training company in the region to have its own website

1991

Meirc becomes headquartered in Dubai, UAE

1988

Meirc celebrates its 30th anniversary with its advisory committee (Aramco, Bapco, KOC, QPC)

1967

Meirc builds its own office building in Beirut

1958

Meirc is founded in Beirut by the late Simon Siksek

