

A photograph of an offshore oil rig at sea during twilight. The rig is illuminated with warm lights, and a large crane is visible on the deck. The sky is a mix of blue and orange, with scattered clouds. The ocean is dark with some whitecaps.

esanda

Upstream oil & gas training specialists

Introduction to oil & gas exploration & production

The course provides an overview of the oil and gas exploration and production industry from a historical, current and future perspective for both non-technical and technical staff. The principles of exploration, development and production will be covered and complemented by what is happening in the industry and what the future holds. The full lifecycle of exploration to product delivery will be covered.

The course is designed for

- Professionals who need to learn about the industry
- Personnel within the industry
- Technical support staff entering the industry
- Technical staff who want to expand their understanding of the industry

What you will leave with

- Comprehensive understanding of the oil and gas lifecycle
- The significance of the oil and gas industry
- How oil and gas is created
- History of the oil and gas industry
- How reservoirs are created
- How oil and gas accumulate
- Understanding of oil and gas exploration
- Understanding of field appraisal, development and production
- What happens to the oil and gas once it is produced
- Unconventional oil and gas

Course overview

The role of oil and gas in society

The nature of oil and gas
Uses for oil and gas

Petroleum geology

Geological time
Rock types
Sedimentary basins
Plate tectonics
Source rocks
Reservoirs
Traps and seals

History of oil and gas

Pre-history
1800s to the great wars
Post war to present

Exploration

Seismic
Field evaluation
Field appraisal

Drilling

Drilling basics
Casing and completing a well
Sampling and testing

Field development and production

Field development planning
Lifecycle costing
Development drilling
Facilities and production
Abandonment

The big picture

Upstream
Midstream
Downstream

Health, Safety and Environment

Health Safety and Environmental considerations

Alternatives

Shale gas
Coal Bed Methane (CBM)

The Future

Where will we find oil and gas in the future
Technology

Course instructor

Anastasis Kokkinos has 30 years experience in the oil and gas industry with a focus on full field development and lifecycle costing. His experience covers offshore and onshore, conventional and unconventional developments. He has worked closely with subsurface/reservoir teams and senior management to ensure integrated field development plans. He also has expert knowledge of IHS/CERAs QUE\$TOR field development and costing software, running training programs on behalf of IHS/CERA.

A selection of other courses available

- *Field Development Planning*
- *Upstream Lifecycle Cost Estimating*
- *Oil and Gas Facilities Fundamentals*
- *Offshore Oil and Gas Facilities Fundamentals*
- *FPSO Fundamentals*
- *Subsea Facilities Fundamentals*
- *QUE\$TOR Oil and Gas Cost Analysis*
- *Strategic Management*
- *Petroleum Economics and Risk Analysis*
- *Project Management*
- *Bespoke courses available upon request*

For more information:
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