



Introduction to oil & gas exploration & production

The course provides a comprehensive 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
Mapping
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

Gravity and magnetic surveying
2D, 3D and 4D seismic
Field valuation
Field appraisal

Drilling

Drilling basics
Drilling, Casing and completing a well
Sampling and testing

Field development and production

Field development planning
Lifecycle costing
Economic analysis
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)
Alternatives to oil and gas
Carbon capture and storage

The Future

Peak Oil
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.

Courses also available

- *Field Development Planning and 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*
- *Stratigic Management*
- *Petroleum Economics and Risk Analysis*
- *Project Management*
- *Bespoke courses available upon request*

To reserve a place contact
training@esandaengineering.com
www.esandaengineering.com

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