

Masterclass Petroleum Industry

Professional training programme



SPARK TRAINING

Professional training courses for leaders, specialists, and organizations seeking practical capability development.

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— Workshop Overview

This comprehensive oil & gas training course recognizes the need for professionals to have a comprehensive and broad understanding of the Petroleum Industry from upstream to downstream. Oil and gas are the world's most important energy resources driving the global economy. The processes and systems required for oil and gas production, refining and distribution are highly complex, capital-intensive and require state-of-the-art technology. This training course will serve as an introduction to the petroleum industry and will greatly assist those who need to progress to a detailed knowledge of the industry.

Why Attend

This course uses instructor-led sessions, guided discussion, and practical exercises built around Day one: Origins of Petroleum, Day two: World Energy Markets, Day three: Refinery Operations, and day four: gas processing.

Who Should Attend

Technologists
Mechanical engineers
Safety and Inspection engineers
Operations, Maintenance or project engineers
Anyone requiring a broad understanding of the structure, operations and economics of the oil and gas industries

— Learning Objectives

- Origins of oil & gas
- Petroleum chemistry
- Petroleum geology
- Exploration & production of petroleum
- Types of Well
- Development of Oil and gas fields

Course Outline

DAY
1

Day one: Origins of Petroleum

- Origins of oil & gas
- Petroleum chemistry
- Petroleum geology
- Exploration & production of petroleum
- Types of Well
- Development of Oil and gas fields

DAY
2

Day two: World Energy Markets

- Pipeline geopolitics
- OPEC (Organization of the Petroleum Exporting Countries)
- EIA (Energy Information Administration)
- Statistical review of petroleum consumption and supply
- Distribution transmission and transportation
- Tank farms and storage

DAY
3

Day three: Refinery Operations

- Physical separation – Distillation
- Chemical conversion processes
- Blending
- Refinery Complexity
- Refining margins

DAY
4

Day four: Gas Processing

- Inlet separation, Dehydration/Dewpoint control
- Contaminants & Pipeline Gas specifications
- Amine Gas Sweetening
- Physical Solvent Processes
- Sulphur Recovery
- Gas compression & Liquefaction

DAY

5

Day five: Oil and Gas Management

- Cost estimation of oil and gas facilities
- Pricing, Trading, Markets, Risk Management
- Crude Benchmarks & price estimation
- Derivatives – Futures, Options and Swaps
- Climate Change & Renewable Energy
- Course Exercises, Evaluation and roundup

— Upcoming Classroom Dates

DATE	LOCATION	FEE
12 - 16 October 2026	Kuala Lumpur - Malaysia	€1,400
9 - 13 November 2026	Barcelona - Spain	€1,925
14 - 18 December 2026	London - United Kingdom	€2,100
18 - 22 January 2027	Istanbul - Türkiye	€1,425
15 - 19 February 2027	Cape Town - South Africa	€2,125
15 - 19 March 2027	Barcelona - Spain	€1,925
19 - 23 April 2027	Rome - Italy	€2,125
17 - 21 May 2027	Kuala Lumpur - Malaysia	€1,400

— Certificate and Registration

Participants who attend and complete the full programme receive a SPARK Training Certificate of Completion. For registration, in-house delivery, or availability questions, contact info@sparktraining.eu or +31 85 115 0004.