

# aractech

Global Learning for Operational Leaders



OIL AND GAS

## Oil Production and Processing Facilities

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# Course content

## Why Attend

This comprehensive 5-day training course concentrates on oil & gas production and subsequent treatment surface facility operations and processes. The training course covers the entire oil & gas value chain from discovery, exploration and transportation through to refining and finally sales to downstream industries. An overview and fundamental understanding of the wide range of oilfield production handling and treatment equipment will be presented as well as new technologies.

This course emphasises oil and gas production facilities both onshore and offshore - from the wellhead to delivery of an on-specification crude oil to the refinery or natural gas to downstream users.

## Course Methodology

## Course Objectives

- Learn the origins and chemical characteristics of Oil & Gas
- Understand the challenges associated with offshore operations, horizontal drilling and other safety concerns
- Familiarize the participants with various methods and techniques used to explore, drill, produce, treat and transport Oil, Gas and their products
- Introduce the participants to upstream, mid-stream and downstream operations
- Appreciate Oil & Natural Gas treatment technologies and processes including produced water treatment
- Learn the many processes involved in crude oil refining and how these contribute to refinery complexity and profitability

## Target Audience

- This Oil Production and Processing Facilities training course is suitable to a wide range of professionals within the Oil and Gas Industries but will greatly benefit:
  - Chemical, Mechanical engineers and Process Technologists,
  - Facility and Inspection engineers
  - Maintenance or project engineers

# Course outline

## Detailed course outline

Day-by-day outline for Oil Production and Processing Facilities.

### Day 1 - Introduction of Oil & Gas Production Life Cycle

- The nature and formation of fossil fuels and oil reserves
- Basic petroleum geology- Where we find fossil fuels: Onshore/ offshore
- Type of wells and Reservoir types
- Exploration activities:
  - Exploration well
  - Directional Drilling

### Day 2 - Functions Related to Oil & Gas Operations

- The chemistry of fossil fuels and petroleum
- Physical properties of hydrocarbons
- Oil & Gas Gathering and separation
- On-site surface processing,
- Produced Water Generation and Management Practices
- Dew Point Control/Liquids Recovery

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### Day 3 - Chemical Reaction Processes

- Types of Contaminants and General Safety Considerations
- Specifications and process selection criteria
- Hydrates, and Gas Dehydration
- Chemistry of Amine Gas Sweetening
- Alkanolamine Processes Selection and Classification
- Selection Criteria for Acid Gas Removal Systems

### Day 4 - Common Process Being Used In Gas Plant Industries

- Physical processes:
  - Selexol, Fluor, Rectisol, Purisol
- Alkaline Salt Processes:
  - Hot Potassium Carbonate Plants – Benfield, Catacarb
- Combination Processes:
  - Sulfinol, HiPure

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### Day 5 - Downstream Operations

- Oil & Gas Downstream Operations
- Oil Storage & Transportation
- Crude oil Treatment & Processing
- Refinery Operations & Products
- Petrochemical Industry
- Oil and Gas pricing

# Seminar dates

## Available seminar dates

Live dates and pricing for Oil Production and Processing Facilities generated from the course details page.

Date	Location	Format	Fee
15 - 19 June 2026	Barcelona	Classroom	€2,695
20 - 24 July 2026	Paris	Classroom	€3,150
3 - 7 August 2026	Frankfurt	Classroom	€2,275
7 - 11 September 2026	Barcelona	Classroom	€2,695
12 - 16 October 2026	Frankfurt	Classroom	€2,275
9 - 13 November 2026	Rome	Classroom	€2,975
14 - 18 December 2026	Kuala Lumpur	Classroom	€1,575

### Live online option

Online delivery is available at €1,250.