informatech

OIL AND GAS | COURSE

Oil Production and Processing Facilities

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Course content

Why Attend

Why Choose Oil Production and Processing Facilities Training Course?

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.

Produced water treating facilities are introduced and discussed and includes coverage of water injection systems.

In addition to the engineering aspects of oil production facilities, practical operating problems will also be covered, including treatment of emulsions, handling of sand, dealing with wax and asphaltenes, natural gas dehydration and sweetening and refinery processing.

What are the Goals?

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

• 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

• Gain valuable knowledge of Gas Sweetening and Physical Solvents Unit Troubleshooting

Course content

Why Attend

Who is this Training Course for?

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
- Operations and Laboratory Chemists
- Technicians, support engineers and engineering trainees
- Consultants and Sales professionals

Course outline

Day one: 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
- Drilling Offshore
- Well Testing & Completion
- Well Stimulation & Workover

Course content

Course outline

Day two: 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
- Acid gas injection
- Oil Recovery Methods

Day three: 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
- Process Flow Schemes
- General Design Criteria / Guidelines
- General Operating Problems in Amine Proce

Day four: Common Process Being Used In Gas Plant Industries

- Physical processes:

Course content

Course outline

- Selexol, Fluor, Rectisol, Purisol
- Alkaline Salt Processes:
- Hot Potassium Carbonate Plants – Benfield, Catacarb
- Combination Processes:
- Sulfinol, HiPure
- Batch Processes:
- Chemsweet, Sulfa-Check, SulfaTreat, Puraspec, Molecular Sieve
- Iron Chelate Processes:
- LO-CAT, SulFerox
- Liquid Hydrocarbon Treating:
- Regenerated Caustic, Perco Solid Copper Chloride, Molecular Sieve, Merox

Day five: Downstream Operations

- Oil & Gas Downstream Operations
- Oil Storage & Transportation
- Crude oil Treatment & Processing
- Refinery Operations & Products
- Petrochemical Industry
- Oil and Gas pricing
- Energy Types, World Energy Review & Global Statistics
- Course review and evaluation

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
20 - 24 July 2026	Paris - France	Classroom	**€4,500.-**
3 - 7 August 2026	Frankfurt - Germany	Classroom	**€3,250.-**
7 - 11 September 2026	Barcelona - Spain	Classroom	**€3,850.-**
12 - 16 October 2026	Frankfurt - Germany	Classroom	**€3,250.-**
9 - 13 November 2026	Rome - Italy	Classroom	**€4,250.-**
14 - 18 December 2026	Kuala lumpur - Malaysia	Classroom	**€2,250.-**

Live online option	Online delivery is available at €1,850.-.