

Optimizing Oil & Gas Facility Design and Operations Course

Oil, Gas & Energy Industry Specialization
Los Angeles (USA)
17 - 21 Nov 2025

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Optimizing Oil & Gas Facility Design and Operations Course

Ref: 321371_139193 **Date:** 17 - 21 Nov 2025 **Location:** Los Angeles (USA) **Fees:** 5700 Euro

Course Description

This comprehensive 5-day course focuses on optimizing oil and gas facilities design and operations. Participants will gain in-depth knowledge of infrastructure planning, equipment selection, process optimization, and economic evaluation techniques. The course covers both upstream and downstream operations, emphasizing practical applications and industry best practices.

Learning Objectives

- Develop strategies for optimizing oil and gas facility design and operations
- Understand key components of oil and gas infrastructure and their interrelationships
- Master techniques for equipment selection and process optimization
- Learn economic evaluation methods for facility design and operational decisions
- Gain insights into emerging technologies and industry trends

Course Modules

Day 1: Oil & Gas Infrastructure Overview

- Field processing facilities
- Water injection systems
- Power generation and distribution
- Refining facilities
- Lifecycle cost analysis

Day 2: Equipment and Processes

- Flowlines and pipeline systems
- Crude separation and treatment
- Gas handling and compression
- Oil pumping and transportation

Day 3: Water Management

- Seawater treatment and injection
- Produced water handling and reinjection
- Pump selection and optimization
- Water quality control

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Day 4: Midstream Operations

- Transportation infrastructure
- Pump and compressor stations
- Storage facilities
- Monitoring and control systems

Day 5: Gas Operations and Economic Evaluation

- Gas processing and treatment
- LNG facilities
- Economic analysis of facility designs
- Optimization strategies and case studies

Practical Wins for Participants

- Ability to identify and implement cost-effective facility design improvements
- Enhanced skills in optimizing operational efficiency and production output
- Improved decision-making capabilities for facility investments and upgrades
- Network with industry professionals and gain insights into best practices

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