

# Optimizing Oil & Gas Facility Design and Operations Course

Oil & Gas Engineering  
Cape Town (South Africa)  
21 - 25 Jul 2025

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# PARTNER

A close-up photograph of chess pieces on a checkered board. In the foreground, a large, ornate gold king piece stands prominently. To its left, a smaller silver pawn is visible. Further back, another silver pawn is positioned. The background features a series of concentric, light gray circles that create a sense of depth and focus on the pieces.

## Optimizing Oil & Gas Facility Design and Operations Course

**Ref:** 321371\_139199 **Date:** 21 - 25 Jul 2025 **Location:** Cape Town (South Africa) **Fees:** 3300 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

A graphic of a chessboard with several chess pieces (king, queen, rook, knight, and pawns) in gold and silver. The text 'UK Training PARTNER' is overlaid on the board.

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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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