

## Oil and Gas Processing Facilities

*Dubai (UAE)*

*19 - 23 January 2025*

UK Training

# PARTNER



# Oil and Gas Processing Facilities

Code: OG28 From: 19 - 23 January 2025 City: Dubai (UAE) Fees: 4600 Pound

## Introduction

This course offers an in-depth exploration of the design, operation, and management of oil and gas processing facilities. It emphasizes key processes, critical equipment, and troubleshooting techniques to promote safe and efficient facility operations.

## Course Objectives

By completing this training, participants will:

- Grasp the core principles of oil and gas processing systems.
- Analyze process flow diagrams P&IDs and technical schematics.
- Understand crude oil storage and vapor recovery systems.
- Study production separators and crude oil dehydration methods.
- Enhance skills in stabilizing and troubleshooting oil, condensate, and natural gas liquids NGL.

## Course Outlines

### Day 1: Overview of Oil and Gas Processing

- Introduction to oil and gas processing facilities.
- Key processes involved in oil and gas production.
- Overview of processing equipment and their uses.
- Environmental considerations in oil and gas operations.
- Fundamentals of process safety and operational efficiency.

### Day 2: Process Flow and Technical Drawings

- Basics of process and instrumentation diagrams P&IDs.
- Interpreting technical schematics and layouts.
- Equipment symbols and their role in P&IDs.
- Hands-on exercises for reading and understanding P&IDs.
- Using technical drawings for troubleshooting and optimization.

### Day 3: Crude Oil Storage and Production Systems

- Principles of crude oil storage system design and operation.
- Understanding vapor recovery systems and emissions control.
- Types and functioning of production separators.
- Crude oil dehydration processes and associated equipment.



- Introduction to water treatment and pipeline systems.

#### Day 4: Stabilization and Troubleshooting

- Processes for stabilizing crude oil, condensate, and NGL.
- Techniques for optimizing oil and gas processes.
- Common operational issues and solutions.
- Case studies on process troubleshooting.
- Emergency response strategies and process recovery techniques.

#### Day 5: Integrated Operations and Practical Applications

- Simulation of oil and gas processing workflows.
- Practical exercises in stabilization and dehydration.
- Group troubleshooting activities.
- Best practices for safe, efficient operations.
- Course wrap-up, discussion, and evaluation.



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