

Oil and Gas Processing Facilities

London (UK)

7 - 11 April 2025

UK Training

PARTNER



Oil and Gas Processing Facilities

Code: OG28 From: 7 - 11 April 2025 City: London (UK) Fees: 5100 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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BLACKBIRD
FOR TRAINING

 International House 185 Tower Bridge
Road London SE1 2UF United Kingdom

 +44 7401 1773 35
+44 7480 775526

 Sales@blackbird-training.com

 www.blackbird-training.com

