Oil and Gas Processing Facilities

24 – 28 October 2027
Online



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Ref: 3254563_168380 **Date:** 24 – 28 October 2027 **Location:** Online **Fees:** 2700 GBP

Introduction

This course offers an in-depth exploration of the design, operation, and management of oil and gas processing facilities. It emphasizes the key processes, critical equipment, and troubleshooting techniques that ensure the safe and efficient operation of these facilities. As oil and gas production facilities play a vital role in the energy sector, this course will equip participants with the skills and knowledge needed to handle complex systems and manage oil and gas operations effectively. Whether you're working in oil and gas facilities design, oil and gas facility management, or are involved in natural gas processing, this course will provide a comprehensive understanding of the processes involved.

Course Objectives

By the end of this training, participants will:

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

Course Outlines

Day 1: Overview of Oil and Gas Processing

- Introduction to oil and gas processing facilities and their key components.
- Overview of the main processes involved in oil and gas production.
- Introduction to gas processing equipment and its role in enhancing operations.
- Environmental considerations in oil and gas operations.
- Fundamentals of process safety and operational efficiency in oil and gas facilities.



Day 2: Process Flow and Technical Drawings

- Basics of process and instrumentation diagrams P&IDs.
- Interpreting technical schematics and layout designs.
- Understanding equipment symbols and their significance in P&IDs.
- Hands-on exercises to read and interpret P&IDs effectively.
- Using technical drawings for troubleshooting and system optimization.

Day 3: Crude Oil Storage and Production Systems

- Principles of designing and operating crude oil storage systems.
- Understanding the role of vapor recovery systems in emissions control.
- Types and functions of production separators in oil and gas facilities.
- Overview of crude oil dehydration processes and related equipment.
- Introduction to water treatment systems and their impact on pipeline operations.

Day 4: Stabilization and Troubleshooting

- Processes for stabilizing crude oil, condensate, and NGL.
- Techniques for optimizing oil and gas processing operations.
- Common operational issues and their solutions in gas processing technology.
- Case studies on troubleshooting techniques for oil and gas facilities.
- Emergency response strategies and recovery techniques for oil and gas systems.

Day 5: Integrated Operations and Practical Applications

- Simulation of oil and gas processing workflows and system integration.
- Practical exercises in stabilizing and dehydrating oil and gas products.
- Group troubleshooting activities to enhance problem-solving skills.
- Best practices for maintaining safe and efficient operations in oil and gas facilities.
- Course wrap-up, participant discussion, and course evaluation.

Why Attend This Course: Wins or Losses!

- Master Oil and Gas Processing: Gain an in-depth understanding of oil and gas production facilities and the processes that drive them. Learn how gas processing technology enhances the efficiency of natural gas processing and oil production systems.
- Improve Troubleshooting Skills: By mastering P&IDs and technical schematics, you'll be able to quickly identify and resolve issues in oil and gas operations, ensuring a smoother and more efficient workflow.
- Enhance Operational Efficiency: Learn critical techniques for optimizing the stabilization and dehydration of oil, condensate, and NGL, helping to improve the overall performance of oil and gas production facilities.
- Stay Ahead in Gas Processing: With specialized training in natural gas processing and gas processing equipment, you'll be equipped with the latest technologies to improve gas processing operations.
- Practical Knowledge: The course emphasizes hands-on practice with real-world scenarios, ensuring you're prepared to manage and optimize oil and gas facilities with confidence.



Conclusion

This course offers an invaluable opportunity to enhance your knowledge of oil and gas processing facilities, focusing on the core principles of natural gas processing, troubleshooting techniques, and optimizing operations. Whether you're involved in oil and gas facilities design, managing oil and gas operations, or handling gas processing equipment, this course equips you with the skills to operate and troubleshoot processing systems effectively. Attending this course will ensure you're better prepared for the challenges of modern oil and gas facilities management, driving efficiency and safety in the workplace.

Don't miss out on this opportunity to advance your career in the oil and gas industry!

