

Training
Course

Crude Oil Treatment

Course Plan

Introduction

Crude oil treatment is a critical process in the oil and gas industry aimed at improving the quality of crude oil for transportation, refining, and marketing. This course provides a comprehensive overview of crude oil treatment processes, technologies, and operational practices. Participants will gain the knowledge and skills needed to optimize crude oil handling, remove impurities, and ensure compliance with industry standards.

Course Objectives:

- ✓ Understand the composition and properties of crude oil.
- ✓ Explain the importance of crude oil treatment in production and refining.
- ✓ Identify common impurities in crude oil and their impact on operations.
- ✓ Understand the main physical and chemical treatment methods.
- ✓ Operate and monitor treatment equipment safely and efficiently.
- ✓ Apply industry standards and best practices in crude oil handling.
- ✓ Analyze crude oil treatment processes to optimize efficiency and reduce costs.

Who Should Attend?

- Process engineers and operators in oil production and refining.
- Chemical engineers and technical staff working in crude oil processing.
- Maintenance and operations personnel in oil treatment facilities.
- Graduate students and professionals seeking knowledge in crude oil handling.

Training Methods:

- ✓ Online Video material.
- ✓ Presentation.
- ✓ Live Interactive sessions.
- ✓ Course presenter will make extensive use of all tools that will be needed for the virtual environment.
- ✓ Questions & Answers

Course Outline:

Day One

- Introduction to Crude Oil: Composition and Properties
- Types of Crude Oil: Light, Medium, Heavy
- Overview of Crude Oil Production and Transportation
- Importance of Crude Oil Treatment
- Common Impurities in Crude Oil: Water, Salts, Solids, Gas

Day Two

- Physical Treatment Processes: Settling, Filtration, Dehydration
- Chemical Treatment Methods: Demulsifiers, Corrosion Inhibitors
- Emulsions in Crude Oil: Formation and Breaking
- Water and Salt Removal Techniques
- Heat Treatment and Desalting Processes

Day Three

- Oil-Water Separation Equipment: Tanks, Separators, Hydrocyclones
- Gas Removal and Degassing Processes
- Solids and Sediment Removal Techniques
- Use of Demulsifiers: Types, Dosage, and Application
- Corrosion Control in Crude Oil Handling

Day Four

- Scale Formation and Prevention
- Sampling and Testing of Crude Oil
- Quality Standards and Specifications (API, ASTM, etc.)
- Safety and Environmental Considerations
- Troubleshooting Treatment Processes

Day Five

- Process Monitoring and Control
- Optimization of Crude Oil Treatment Operations
- Case Studies from Oil Fields and Refineries
- Emerging Technologies in Crude Oil Treatment
- Summary, Best Practices, and Future Trends

Training Details

Course Duration	5 Days
Pre-Schedule	30 Nov – 4 Dec 2025
Venue	UAE – Dubai – The H Hotel
Training Fees Per Person	KWD 1500 (One Thousand Five Hundred Only)
Course Fees Include	<ul style="list-style-type: none"> ✓ Tuition documentation ✓ Curriculum and Training Handout ✓ Five star Lunch ✓ Completion Certificates ✓ Lunch Included