

Crude Oil Pipeline Operations

Barcelona (Spain)

28 April - 2 May 2025

UK Training

PARTNER



Crude Oil Pipeline Operations

Code: OG28 From: 28 April - 2 May 2025 City: Barcelona (Spain) Fees: 5100 Pound

Introduction

This course is designed to provide participants with a comprehensive understanding of crude oil pipeline operations, combining in-depth technical knowledge with practical applications. The program focuses on the technical, operational, and safety aspects of pipeline systems, aiming to enhance the expertise of professionals in the field.

Course Objectives

By completing this course, participants will:

- Gain a solid understanding of the fundamentals of crude oil pipeline operations.
- Acquire knowledge of key pipeline facilities and equipment.
- Learn techniques for commissioning, purging, startup, and shutdown processes.
- Explore fluid dynamics, including crude oil properties and wax behavior.
- Develop skills to respond to emergencies, including spill management and containment strategies.

Course Outlines

Day 1: Fundamentals of Pipeline Operations

- Overview of crude oil pipelines and operational workflows.
- Introduction to pipeline commissioning and purging/filling procedures.
- Pipeline startup and shutdown processes.
- Understanding pigging and pig receiver operations.
- Measurement and sampling in pipeline operations.

Day 2: Pipeline Facilities and Equipment

- Overview of pipeline facilities: pump stations and filtration systems.
- Metering, sampling, and testing equipment.
- Pigging equipment types and operational considerations.
- Role and operation of tank terminals.
- Structure and functionality of truck/rail loading facilities.

Day 3: Fluid Properties and Behavior

- Operational implications of crude oil properties.
- Understanding wax behavior in crude oils and mitigation strategies.
- Temperature management in pipeline operations.



- Application of drag-reducing agents DRA in crude oil pipelines.
- Case studies on managing fluid behavior in pipelines.

Day 4: Emergency Response and Safety

- Identifying risks associated with pipeline operations.
- Emergency response strategies for spills.
- Containment measures for crude oil loss.
- Specialized equipment for spill management.
- Regulatory compliance and industry best practices for pipeline safety.

Day 5: Integrated Operations and Practical Applications

- Simulation exercises for commissioning and purging/filling operations.
- Hands-on practice with pigging and measurement techniques.
- Testing and sampling procedures.
- Emergency response scenario drills.
- Course conclusion, Q&A session, and participant feedback.



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