

## Crude Oil Pipeline Operations

*Düsseldorf (Germany)*

*30 December 2024 - 3 January 2025*

UK Traininig

# PARTNER



# Crude Oil Pipeline Operations

Code: OG28 From: 30 December 2024 - 3 January 2025 City: Düsseldorf (Germany) Fees: 4900 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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