

## Water, Oil, and Gas Sampling and Analysis

*Cairo (Egypt)*

*1 - 5 June 2025*

UK Traininig

# PARTNER



# Water, Oil, and Gas Sampling and Analysis

Code: OG28 From: 1 - 5 June 2025 City: Cairo (Egypt) Fees: 4000 Pound

## Introduction

This course provides participants with a solid foundation in the techniques and best practices for sampling and analyzing water, oil, and gas. It covers the composition, properties, and characteristics of these substances, along with proper sampling methods, safety precautions, and environmental compliance. By the end of the course, participants will be equipped to ensure accurate, reliable analysis results.

## Course Objectives

By the end of this training, participants will:

- Understand the composition and properties of oil, gas, and water.
- Learn the correct sampling methods and systems for water, oil, and gas.
- Identify appropriate sampling locations, potential hazards, and safety precautions.
- Ensure sample quality and integrity, while adhering to safety and environmental standards.
- Gain practical experience in analysis, monitoring, and assessment techniques.

## Course Outlines

### Day 1: Fundamentals of Composition and Sampling

- Overview of the composition and properties of oil, gas, and water.
- The importance of accurate sampling in the analysis process.
- Introduction to various sampling systems and methodologies.
- Identifying optimal sampling locations and assessing potential hazards.
- Understanding safety and environmental compliance requirements.

### Day 2: Water Sampling Techniques

- Methods and systems for water sampling.
- Selecting sampling locations and identifying hazards.
- Ensuring sample quality and integrity throughout the process.
- Key safety considerations in water sampling.
- Addressing environmental concerns and compliance protocols.

### Day 3: Oil Sampling Techniques

- Overview of oil sampling apparatus and equipment.
- Manual sampling techniques and special precautions.
- General procedures and types of oil sampling.

- Best practices for accurate sample collection and transport.
- Practical exercises focusing on oil sampling methods.

#### Day 4: Gas Sampling Techniques

- Introduction to gas sampling systems and methods.
- Selecting sampling locations and identifying associated hazards.
- Maintaining gas sample quality and integrity.
- Criteria for gas analysis, monitoring, and assessment.
- Troubleshooting common challenges in gas sampling.

#### Day 5: Integration and Practical Application

- Comparative analysis of sampling methods for water, oil, and gas.
- Hands-on exercises on sampling, analysis, and reporting.
- Monitoring, assessment, and effective reporting techniques.
- Real-world case studies on sampling and compliance practices.
- Course wrap-up, Q&A, and participant feedback.



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