

Well Testing Operations

Düsseldorf (Germany)

2 - 13 December 2024

UK Traininig

PARTNER



Well Testing Operations

Code: OG28 From: 2 - 13 December 2024 City: Düsseldorf (Germany) Fees: 8300 Pound

Introduction

This course provides a comprehensive understanding of well testing operations, focusing on principles, methodologies, and practical applications. It aims to equip participants with the necessary skills to perform well tests, understand the equipment and techniques involved, ensure safety during operations, and interpret test data effectively to assess reservoir conditions and predict well behavior.

Course Objectives

By the end of this course, participants will be able to:

- Understand the importance of conducting well tests.
- Learn the different methodologies and types of well testing.
- Familiarize themselves with downhole hardware and surface testing equipment.
- Perform well testing operations efficiently and safely.
- Analyze well testing data to diagnose reservoir conditions and predict well performance.

Course Outlines

Day 1: Introduction to Well Testing

- Understanding the role of well testing in the oil and gas industry.
- Reasons for conducting well tests.
- Key terminologies and concepts in well testing.
- Overview of well testing tools and equipment.
- Types of well tests and their practical applications.

Day 2: Methodology of Well Testing

- Initial perturbation: principles and effects.
- Constant pressure vs. constant rate conditions.
- Managing wellbore storage.
- Types of well test sequences and their purposes.
- Planning and preparation for well testing operations.

Day 3: Downhole Hardware Options

- Overview of downhole tools used in well testing.
- Gathering data from downhole sensors.
- Testing while drilling TWD: methods and equipment.



- Testing after drilling completion.
- Traditional vs. wireline formation testing.

Day 4: Surface Testing Equipment

- Key components of surface testing equipment.
- Onshore vs. offshore testing operations: differences and similarities.
- The use of pressure gauges in well testing.
- Measuring gas, oil, and water flow at the surface.
- Calibration and maintenance of surface testing equipment.

Day 5: Well Testing Operations

- Equipment checks before starting well tests.
- Well control procedures during testing.
- Perforating techniques in well testing.
- Fluid behavior and sampling operations.
- The role of stimulation in well testing.

Day 6: Safety in Well Testing Operations

- Safety protocols and guidelines for well testing.
- Risk assessment and hazard identification.
- Emergency response plans for well testing operations.
- Ensuring safety during onshore and offshore testing.
- Case studies of safety incidents and lessons learned.

Day 7: Roles and Responsibilities

- Responsibilities of personnel involved in well testing.
- Communication and coordination among team members.
- Preparing reports and documentation.
- Regulatory compliance and standards in well testing.
- Training and competency development for testing personnel.

Day 8: Interpretation Approach: Basic Concepts

- Understanding the superposition concept in well testing.
- Diagnosing near-wellbore conditions.
- Identifying reservoir behavior and boundaries.
- Introduction to deconvolution techniques.
- Analyzing limited reservoirs and their challenges.

Day 9: Advanced Interpretation Techniques

- Predicting well behavior using test data.
- Advanced reservoir diagnostics.
- Understanding boundary effects in reservoir systems.
- Case studies on well test interpretation.



- Practical exercises on data interpretation.

Day 10: Application and Review

- Hands-on exercises with real well testing scenarios.
- Group discussions on interpreting results.
- Application of testing methodologies in various environments.
- Course wrap-up: Q&A session.
- Final evaluation and certification ceremony.



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BLACKBIRD
FOR TRAINING



International House 185 Tower Bridge
Road London SE1 2UF United Kingdom



+44 7401 1773 35
+44 7480 775526



Sales@blackbird-training.com



www.blackbird-training.com

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