

Oil & Gas Processing Flow Measurement: Precision Training

Oil & Gas Engineering
Munich (Germany)
04 - 08 Aug 2025

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Oil & Gas Processing Flow Measurement: Precision Training

Ref: 3275_137820 **Date:** 04 - 08 Aug 2025 **Location:** Munich (Germany) **Fees:** 4400 **Euro**

Course Description

This intensive 5-day course provides a comprehensive understanding of flow measurement in oil and gas processing. Participants will learn advanced techniques, industry standards, and practical applications for precise measurements. The course covers fundamental principles, measurement devices, calibration methods, and troubleshooting strategies essential for accurate flow measurement in the oil and gas industry.

Learning Objectives

- Understand the principles of flow measurement in oil and gas processing
- Master the operation and maintenance of various flow measurement devices
- Learn calibration techniques and uncertainty analysis for accurate measurements
- Develop skills in troubleshooting and optimizing flow measurement systems
- Gain knowledge of industry standards and best practices for flow measurement

Course Modules

Day 1: Fundamentals of Flow Measurement

- Introduction to flow measurement principles
- Types of flow in oil and gas processing
- Units and conversions in flow measurement
- Fluid properties and their impact on measurement

Day 2: Flow Measurement Devices

- Differential pressure flow meters
- Positive displacement meters
- Turbine and vortex flow meters
- Ultrasonic and Coriolis flow meters

Day 3: Calibration and Uncertainty Analysis

- Calibration methods and procedures
- Traceability and standards in calibration
- Uncertainty analysis in flow measurement
- Proving systems and meter factors

A graphic of a chessboard with several chess pieces (king, queen, rook, knight, and pawns) in gold and silver. The text 'UK Training PARTNER' is overlaid on the board.

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Day 4: Advanced Measurement Techniques

- Multiphase flow measurement
- Custody transfer measurement
- Flow computer systems and data management
- Leak detection and pipeline monitoring

Day 5: Troubleshooting and Optimization

- Common issues in flow measurement systems
- Diagnostic techniques and tools
- System optimization strategies
- Industry case studies and best practices

Practical Wins for Participants

- Ability to select and implement appropriate flow measurement devices for specific applications
- Skills to perform accurate calibrations and uncertainty analyses
- Expertise in troubleshooting and optimizing flow measurement systems
- Knowledge to ensure compliance with industry standards and regulations

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