Measurement of Hydrocarbons: Best Practices & Techniques

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Cairo (Egypt)

UK Traininig
PARTNER



Measurement of Hydrocarbons: Best Practices & Techniques

Ref: 20222943_219915 Location: Cairo (Egypt) Fees: 4900 GBP

Course Description

This comprehensive 1-week course covers best practices for measuring hydrocarbons in the oil and gas industry. Participants will learn about flow measurement principles, metering technologies, calibration techniques, and data analysis. The course emphasizes practical skills and industry standards for accurate hydrocarbon quantification.

Learning Objectives

- Understand fundamental principles of hydrocarbon measurement
- Master various flow metering technologies and their applications
- Learn calibration and proving techniques for measurement equipment
- Develop skills in data analysis and reporting for hydrocarbon measurements
- Apply industry standards and best practices for accurate quantification

Course Modules

Day 1: Introduction to Hydrocarbon Measurement

- Fundamentals of hydrocarbon properties and behavior
- Overview of measurement standards and regulations
- Introduction to flow measurement principles
- Safety considerations in hydrocarbon measurement

Day 2: Flow Metering Technologies

- Differential pressure meters orifice, venturi, flow nozzles
- Positive displacement and turbine meters
- Coriolis and ultrasonic flow meters
- Selection criteria for different applications

Day 3: Calibration and Proving Techniques

- Meter factor and K-factor determination
- Proving methods for liquid and gas meters
- Calibration of temperature and pressure instruments
- Uncertainty analysis in calibration



Day 4: Data Analysis and Reporting

- Flow computer functions and configurations
- Data validation and quality control
- Calculation of standard volumes and mass
- Reporting requirements and best practices

Day 5: Industry Standards and Best Practices

- API MPMS and other relevant standards
- Custody transfer measurement considerations
- Troubleshooting common measurement issues
- Emerging technologies and future trends

Practical Wins for Participants

- Ability to select and implement appropriate metering technologies
- Skills to perform accurate calibrations and provings
- Expertise in analyzing and reporting measurement data
- Knowledge to ensure compliance with industry standards

