# Flow Measurement and Custody Transfer: Precision Techniques

8 – 12 November 2027
Paris (France)



# Flow Measurement and Custody Transfer: Precision Techniques

**Ref:** 322855_216691 **Date:** 8 – 12 November 2027 **Location:** Paris (France) **Fees:** 5900 GBP

## Course Description

This comprehensive 1-week course covers essential aspects of flow measurement and custody transfer in the oil and gas industry. Participants will gain in-depth knowledge of various flow measurement technologies, custody transfer principles, and industry standards. The course combines theoretical concepts with practical applications to ensure accurate and reliable fluid transfer operations.

## Learning Objectives

- Understand fundamental principles of flow measurement and custody transfer
- Master various flow measurement technologies and their applications
- Learn calibration, proving, and maintenance techniques for measurement systems
- Gain proficiency in industry standards and best practices for custody transfer
- Develop skills to optimize measurement accuracy and minimize errors
- Understand the financial implications of custody transfer measurements

## Course Modules

### Day 1: Introduction to Flow Measurement and Custody Transfer

- Fundamentals of fluid mechanics and flow measurement
- Overview of custody transfer principles and applications
- Types of custody transfer and their importance
- Key terminology and concepts in flow measurement

### Day 2: Flow Measurement Technologies

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

### Day 3: Custody Transfer Systems and Standards

- Components of custody transfer systems
- Industry standards API, ISO, AGA for custody transfer
- Uncertainty analysis and measurement accuracy
- Quality control and assurance in custody transfer



### Day 4: Calibration, Proving, and Maintenance

- Calibration techniques for flow measurement devices
- Meter proving methods and equipment
- Maintenance strategies for custody transfer systems
- Troubleshooting common issues in flow measurement

### Day 5: Advanced Topics and Practical Applications

- Multiphase flow measurement techniques
- Custody transfer in pipelines and storage facilities
- Data management and reporting in custody transfer
- Case studies and real-world applications

## Practical Wins for Participants

- Ability to select and implement appropriate flow measurement technologies for specific applications
- Skills to optimize custody transfer systems for improved accuracy and reliability
- Knowledge to ensure compliance with industry standards and regulations
- Capability to troubleshoot and resolve common issues in flow measurement and custody transfer operations

