



*Training Course:
Flow Measurement and Custody Transfer*

*20 - 24 July 2026
Cape Town (South Africa)
DoubleTree by Hilton Cape Town - Upper Eastside*

Training Course: Flow Measurement and Custody Transfer

Training Course code: EN6094 From: 20 - 24 July 2026 Venue: Cape Town (South Africa) - DoubleTree by Hilton Cape Town - Upper Eastside Training Course Fees: 7500 € Euro

Introduction

Accurate flow measurement is critical in the oil & gas and process industries, particularly in custody transfer where financial transactions depend on precise quantification of fluids. Even small measurement errors can lead to significant financial discrepancies.

This program, designed by Global Horizon Training Center, equips participants with the technical knowledge and practical skills required to perform accurate flow measurement, apply custody transfer standards, and ensure measurement integrity in compliance with international guidelines.

Course Objectives

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

- Understand the principles of flow measurement and fluid behavior
- Identify different flow measurement technologies and their applications
- Apply custody transfer standards and procedures
- Ensure measurement accuracy and uncertainty control
- Perform calibration and verification of flow meters
- Interpret measurement data and detect errors
- Ensure compliance with industry standards API, ISO
- Improve measurement reliability and financial accountability

Target Audience

This program is designed for:

- Instrumentation and Control Engineers
- Measurement and Calibration Specialists
- Oil & Gas Operations Personnel
- Pipeline and Terminal Engineers
- Quality Assurance and Compliance Professionals
- Technical staff involved in metering systems

Outline

Day 1: Fundamentals of Flow Measurement

- Principles of fluid flow and measurement
- Types of flow liquid, gas, multiphase
- Measurement units and standards
- Overview of flow measurement technologies
- Introduction to custody transfer

Day 2: Flow Meter Technologies and Applications

- Differential pressure flow meters orifice, venturi
- Turbine and positive displacement meters
- Ultrasonic and Coriolis flow meters
- Selection criteria and installation considerations
- Performance characteristics and limitations

Day 3: Custody Transfer Systems and Standards

- Definition and importance of custody transfer
- International standards API MPMS, ISO
- Metering stations and system components
- Proving systems and calibration methods
- Data acquisition and reporting

Day 4: Measurement Accuracy and Uncertainty

- Sources of measurement errors
- Uncertainty analysis and calculations
- Calibration procedures and traceability
- Flow computer systems and corrections
- Quality control and verification

Day 5: Troubleshooting, Optimization, and Case Studies

- Diagnosing measurement issues
- Maintenance and performance optimization
- Improving system accuracy and reliability
- Audit and compliance practices
- Case studies and real-world applications

Registration form on the Training Course: Flow Measurement and Custody Transfer

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Complete & Mail or fax to Global Horizon Training Center (GHTC) at the address given below

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Full Name (Mr / Ms / Dr / Eng):

Position:

Telephone / Mobile:

Personal E-Mail:

Official E-Mail:

Company Information

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Person Responsible for Training and Development

Full Name (Mr / Ms / Dr / Eng):

Position:

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Payment Method

- Please find enclosed a cheque made payable to Global Horizon
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