



*Training Course:
Oil and Gas Processing Flow Measurement*

*2 - 6 May 2027
Cairo (Egypt)*

Training Course: Oil and Gas Processing Flow Measurement

Training Course code: EN235435 From: 2 - 6 May 2027 Venue: Cairo (Egypt) - Training Course Fees: 4410 € Euro

Introduction

Accurate flow measurement is essential for operational efficiency, process control, and custody transfer in the oil and gas industry. Reliable measurement systems support production optimization, regulatory compliance, and financial accuracy across upstream, midstream, and downstream operations.

This program, designed by Global Horizon Training Center, equips participants with the technical knowledge and practical skills required to select, install, operate, and maintain flow measurement systems used in oil and gas processing facilities.

Course Objectives

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

- Understand core principles of flow measurement in oil and gas processes
- Identify major flow meter types and their applications
- Select appropriate measurement technologies based on process conditions
- Interpret flow data and evaluate measurement accuracy
- Apply best practices for installation and system configuration
- Perform calibration and routine maintenance activities
- Diagnose and troubleshoot measurement errors
- Ensure compliance with custody transfer and industry standards

Target Audience

This program is designed for:

- Instrumentation and Control Engineers
- Process Engineers in Oil & Gas facilities
- Maintenance and Reliability Engineers
- Measurement and Calibration Technicians
- Operations Personnel across upstream, midstream, and downstream sectors
- Quality, Audit, and Compliance Professionals

Outline

Day 1: Fundamentals of Flow Measurement

- Role of flow measurement in oil and gas operations
- Fluid properties and flow behavior liquid, gas, multiphase
- Measurement units, accuracy, and uncertainty
- Overview of international standards API, ISO, AGA
- Introduction to custody transfer concepts

Day 2: Flow Measurement Technologies

- Differential pressure meters orifice, venturi, flow nozzle
- Turbine and positive displacement meters
- Ultrasonic and Coriolis flow meters
- Multiphase flow measurement basics
- Selection criteria and technology comparison

Day 3: System Design and Installation

- Meter selection based on process conditions
- Piping design, straight run, and flow conditioning
- Meter sizing and performance optimization
- Installation best practices and site considerations
- System documentation and configuration

Day 4: Calibration, Maintenance, and Troubleshooting

- Calibration principles and proving methods
- Preventive and corrective maintenance strategies
- Identifying measurement errors and drift
- Troubleshooting common flow meter issues
- Data validation and system performance monitoring

Day 5: Custody Transfer and Advanced Applications

- Custody transfer systems and fiscal measurement
- Meter proving techniques and verification standards
- Integration with SCADA and control systems
- Data acquisition, reporting, and auditing
- Case studies and real-world industry applications

Registration form on the Training Course: Oil and Gas Processing Flow Measurement

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

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