



*Training Course:  
Oil and Gas Processing Flow Measurement*

*17 - 21 January 2027  
Dubai (UAE)*

## Training Course: Oil and Gas Processing Flow Measurement

Training Course code: EN235435 From: 17 - 21 January 2027 Venue: Dubai (UAE) - Training Course Fees: 5830 € 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

### Delegate Information

Full Name (Mr / Ms / Dr / Eng): .....  
Position: .....  
Telephone / Mobile: .....  
Personal E-Mail: .....  
Official E-Mail: .....

### Company Information

Company Name: .....  
Address: .....  
City / Country: .....

### Person Responsible for Training and Development

Full Name (Mr / Ms / Dr / Eng): .....  
Position: .....  
Telephone / Mobile: .....  
Personal E-Mail: .....  
Official E-Mail: .....

### Payment Method

- ☐ Please find enclosed a cheque made payable to Global Horizon
- ☐ Please invoice me
- ☐ Please invoice my company

### Easy Ways To Register

Telephone:  
+201095004484 to  
provisionally reserve your  
place.

Fax your completed  
registration  
form to: +20233379764

E-mail to us :  
info@gh4t.com  
or training@gh4t.com

Complete & return the  
booking form with cheque  
to: Global Horizon  
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