



*Training Course:
Measurement And Calibration for Instruments*

*22 - 26 August 2027
Dubai (UAE)*

Training Course: Measurement And Calibration for Instruments

Training Course code: EN234756 From: 22 - 26 August 2027 Venue: Dubai (UAE) - Training Course Fees: 5830 € Euro

Introduction

Accurate measurement and proper calibration of instruments are essential for ensuring process reliability, product quality, and regulatory compliance in industrial environments. Effective calibration practices minimize errors, maintain traceability, and support operational efficiency across various sectors.

This program, designed by Global Horizon Training Center, equips participants with the technical knowledge and practical skills required to perform measurement and calibration of industrial instruments in accordance with international standards and best practices.

Course Objectives

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

- Understand measurement principles and calibration fundamentals
- Identify types of industrial instruments and their functions
- Apply calibration techniques for pressure, temperature, flow, and level instruments
- Interpret measurement accuracy, uncertainty, and error analysis
- Perform calibration procedures using appropriate tools and standards
- Maintain traceability and documentation in calibration processes
- Troubleshoot instrument performance issues
- Ensure compliance with international standards ISO, IEC

Target Audience

This program is designed for:

- Instrumentation and Control Engineers
- Calibration and Maintenance Technicians
- Quality Assurance and Quality Control Professionals
- Process and Production Engineers
- Laboratory and Testing Personnel
- Technical Staff involved in measurement systems

Outline

Day 1: Fundamentals of Measurement and Calibration

- Introduction to measurement systems and principles
- Types of measurements and units
- Calibration concepts and importance
- Accuracy, precision, and error analysis
- Standards and traceability ISO, IEC

Day 2: Calibration of Pressure and Temperature Instruments

- Types of pressure instruments and calibration methods
- Calibration of transmitters and gauges
- Temperature measurement devices RTDs, thermocouples
- Calibration procedures for temperature instruments
- Troubleshooting common issues

Day 3: Calibration of Flow and Level Instruments

- Flow measurement devices and calibration techniques
- Level measurement systems and methods
- Calibration equipment and tools
- Data recording and validation
- Identifying and correcting measurement errors

Day 4: Advanced Calibration Techniques and Uncertainty Analysis

- Measurement uncertainty and its calculation
- Advanced calibration procedures
- Automation and digital calibration systems
- Calibration intervals and scheduling
- Quality control in calibration processes

Day 5: Documentation, Compliance, and Case Studies

- Calibration documentation and reporting
- Compliance with standards and audits
- Managing calibration records and systems
- Best practices in calibration management
- Case studies and real-world applications

Registration form on the Training Course: Measurement And Calibration for Instruments

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

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Person Responsible for Training and Development

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Payment Method

- ☐ Please find enclosed a cheque made payable to Global Horizon
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3 Oudai street, Aldouki,
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