



Liquid and Gas Flow Measurement

26 - 30 May 2025
Paris (France)



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Ref.: 15725_322450 **Date:** 26 - 30 May 2025 **Location:** Paris (France) **Fees:** 5500 **Euro**

Introduction:

Accurate liquid and gas flow measurement is crucial for efficient operation and control in various industries, including oil and gas, chemical processing, and water treatment. This course provides an overview of the principles, techniques, and technologies used in flow measurement.

Participants will explore the fundamental concepts of flow dynamics, the latest instrumentation, and methods for ensuring precise and reliable measurements. By understanding these key aspects, professionals can enhance process optimization, ensure regulatory compliance, and improve operational efficiency.

Targeted Groups:

- Engineers in Process Industries.
- Instrumentation and Control Specialists.
- Oil and Gas Industry Professionals.
- Chemical Plant Operators.
- Maintenance Technicians.
- Environmental Engineers.
- Energy Sector Technicians.
- Research and Development Teams.
- Quality Assurance Analysts.
- Safety Compliance Officers.

Course Objectives:

At the end of this course, the participants will be able to:

- Develop a solid understanding of flow measurement principles for liquids and gases.
- Learn to select appropriate flow meters based on specific application requirements.
- Gain expertise in calibrating flow measurement instruments for optimal accuracy.
- Explore various technologies and methods used in flow measurement.
- Acquire skills in interpreting and analyzing flow measurement data.
- Master troubleshooting techniques for common flow measurement issues.
- Understand how to integrate flow measurement systems with existing control systems.
- Ensure compliance with relevant industry standards and regulations.
- Optimize flow measurement processes to enhance operational efficiency.
- Learn best practices for the maintenance and servicing of flow meters.

Targeted Competencies:

- Understanding Flow Measurement Principles.
- Proficiency in Flow Meter Selection.
- Calibration Techniques for Accuracy.
- Application of Measurement Technologies.
- Data Interpretation and Analysis.
- Troubleshooting Flow Measurement Issues.
- Integration with Control Systems.
- Compliance with Industry Standards.
- Optimization of Flow Measurement Processes.
- Maintenance and Upkeep of Flow Meters.

Course Content:

Unit 1: Fundamentals of Flow Measurement:

- Introduction to flow measurement principles.
- Basic concepts of fluid dynamics and flow types.
- Overview of flow measurement units and terminology.
- Types of flow meters: volumetric vs. mass flow meters.
- Understanding flow rate and velocity.

Unit 2: Flow Meter Technologies:

- Detailed study of flow meter types: orifice, vortex, and ultrasonic.
- Advantages and limitations of each flow meter technology.
- Application scenarios for different flow meters.
- Principles of operation for each flow meter type.
- Factors affecting meter performance and selection criteria.

Unit 3: Calibration and Accuracy:

- Techniques for calibrating different types of flow meters.
- Procedures for ensuring measurement accuracy.
- Calibration standards and reference materials.
- Common sources of measurement errors and how to mitigate them.
- Best practices for regular calibration and verification.

Unit 4: Data Interpretation and Analysis:

- Methods for interpreting flow measurement data.
- Techniques for analyzing flow trends and anomalies.
- Use of software tools for data analysis.
- Integrating flow measurement data with process control systems.
- Reporting and documentation of measurement results.



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Unit 5: Troubleshooting and Maintenance:

- Common issues in flow measurement systems and their causes.
- Troubleshooting techniques for flow measurement problems.
- Routine maintenance tasks for flow meters.
- Best practices for maintaining and servicing flow measurement instruments.
- Strategies for extending the lifespan of flow meters and ensuring reliability.



**Registration form on the :
Liquid and Gas Flow Measurement**

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