



Advanced Liquid and Gas Flow Measurement

03 - 07 Feb 2025
Amsterdam (Netherlands)



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Ref.: 15727_322544 **Date:** 03 - 07 Feb 2025 **Location:** Amsterdam (Netherlands) **Fees:** 5500 Euro

Introduction:

Accurate liquid and gas flow measurement is crucial for optimizing performance, ensuring safety, and maintaining operational efficiency in industrial processes and engineering. The Advanced Liquid and Gas Flow Measurement course delves into the sophisticated technologies and methodologies employed to measure and analyze flow rates in various systems.

This course covers advanced topics, including state-of-the-art measurement techniques, instrumentation, and calibration procedures, providing a comprehensive understanding of the principles and practices involved. Participants will explore various flow measurement devices, such as Coriolis, ultrasonic, and magnetic flow meters, and learn to apply these technologies to complex applications.

In the course, attendees will possess the skills and knowledge to effectively select, implement, and maintain advanced flow measurement systems, enhancing their ability to manage and control industrial processes with precision and confidence.

Targeted Groups:

- Process Engineers.
- Instrumentation Technicians.
- Maintenance Engineers.
- Operations Managers.
- Quality Control Specialists.
- Automation Professionals.
- Safety Engineers.
- Research and Development Teams.

Course Objectives:

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

- Understand advanced techniques for measuring liquid and gas flow.
- Learn to select and implement appropriate flow measurement instruments.
- Develop skills in calibrating and validating measurement systems.
- Analyze and interpret flow measurement data for operational optimization.
- Troubleshoot and maintain advanced flow measurement systems.
- Ensure compliance with industry standards and safety regulations.
- Enhance system efficiency through effective measurement practices.

Targeted Competencies:

- Advanced Flow Measurement Techniques.
- Calibration and Validation Procedures.
- Instrumentation Selection and Integration.
- Data Analysis and Interpretation.
- Troubleshooting and Maintenance.
- System Optimization and Efficiency.
- Compliance with Industry Standards.
- Safety and Risk Management.

Course Content:

Unit 1: Fundamentals of Flow Measurement:

- Overview of flow measurement principles.
- Types of flow meters and their applications.
- Key parameters: flow rate, velocity, and pressure.
- Understanding fluid dynamics and flow profiles.
- Introduction to measurement accuracy and precision.
- Calibration techniques and their importance.

Unit 2: Advanced Flow Measurement Technologies:

- In-depth study of Coriolis flow meters.
- Operation and application of ultrasonic flow meters.
- Magnetic flow meters and their uses.
- Thermal dispersion flow measurement methods.
- Comparison of different measurement technologies.
- Selecting the right technology for specific applications.

Unit 3: Calibration and Validation Procedures:

- Principles of flow meter calibration.
- Step-by-step calibration procedures.
- Using calibration standards and equipment.
- Validation techniques and best practices.
- Troubleshooting calibration issues.
- Ensuring long-term accuracy and reliability.

Unit 4: Data Analysis and Interpretation:

- Collecting and managing flow measurement data.
- Analyzing data for trends and anomalies.
- Using software tools for data visualization.
- Interpreting results to make informed decisions.
- Techniques for improving data accuracy.
- Reporting and documenting flow measurement findings.



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Unit 5: System Optimization and Maintenance:

- Strategies for optimizing flow measurement systems.
- Regular maintenance routines and schedules.
- Diagnosing and fixing common issues.
- Upgrading and retrofitting existing systems.
- Implementing best practices for system longevity.
- Ensuring compliance with safety and industry standards.



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

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