
FLOW MEASUREMENT

TRAINING COURSE OUTLINE

COURSE SUMMARY

This course provides a comprehensive understanding of various types of flowmeters, including Positive Displacement, Electromagnetic, Ultrasonic, Mass (Coriolis), Thermal Mass, and Vortex flowmeters. Participants will learn the principles of operation, selection criteria, installation procedures, wiring, configuration, maintenance practices, calibration techniques, and troubleshooting methods for each flowmeter type.

By the end of this course, participants will gain practical skills and knowledge to effectively manage, maintain, and optimize flow measurement systems in industrial applications.

COURSE OBJECTIVES

- Understanding the various types of flowmeters
 - Positive Displacement
 - Electromagnetic
 - Ultrasonic
 - Mass (Coriolis) Flowmeters
 - Thermal mass
 - Vortex
- Understanding the following about flowmeters.
 - Principle of Operation
 - Selection
 - Installation
 - Wiring
 - Configuration
 - Maintenance
 - Calibration
 - Troubleshooting

COURSE OUTLINE

- Introduction to Flow measurement
- Flow measurement units
- Flow meter Types

- Flowmeter Selection
- Calibration
- Maintenance
- Endress+Hauser Electromagnetic Meters (Promag Series)
- Measuring Principle
- Selection
- Installation
- Wiring
- Configuration
- Hands on Promag 10H
- Endress+Hauser Ultrasonic Meters
- Measuring Principle
- Selection
- Installation
- Wiring
- Configuration
- Endress+Hauser Coriolis Meters
- Mass Flowmeters
- Measuring Principle
- Selection
- Installation
- Wiring
- Configuration
- Hands – on Promass 300
- Troubleshooting
- Interaction (Questions and Answers)
- Post-Test