**White Paper**
Overview
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# Education Services: Measurement Instrumentation

## Confidence and Capability for Modern Industrial Operations



EMERSON

Accurate measurement is the foundation of safe, efficient, and high performing industrial operations. From flow and level to pressure, temperature, and gas analysis, measurement instrumentation provides the data that drives daily decisions, protects assets, and supports long term productivity and sustainability goals.

However, the value of measurement technology depends on more than device selection. Real performance comes from how instrumentation is installed, configured, maintained, and interpreted in live operating environments. Emerson Education Services helps you to build the skills and confidence needed to apply instrumentation correctly every day, under real conditions.

## Emerson Measurement Solutions: Leadership Built on Insight

Emerson offers the industry's most extensive portfolio of measurement and analytical instrumentation, supported by software, integrated systems, and services. These solutions provide the actionable insight you need to respond to changing operational demands while improving safety, efficiency, and sustainability.

Emerson Education Services transforms measurement expertise into hands on, instructor led training, built around real world scenarios and proven best practices.

## Measurement Instrumentation Courses Designed for You

Our training portfolio supports a wide range of technologies and roles, from foundational skills to advanced applications.



### Rosemount Guided Wave & Non Contacting Radar Level Transmitters (2896)

Build confidence applying radar level technologies in real process conditions using scenario based training in a simulated plant environment. You will learn how to:

- Identify transmitter components and understand functionality
- Explain the principles of operation for guided wave and non contacting radar
- Configure, calibrate, verify, and test radar level transmitters using Field Communicator and Radar Master software
- Set up radar transmitters for different applications
- Install and troubleshoot Rosemount 5300 and 5400 radar level transmitters safely

**Designed for:**
Individuals responsible for the installation, configuration, calibration, and maintenance of Rosemount radar level transmitters.

### Micro Motion Coriolis Product (2352)

Develop a strong foundation in Coriolis flow and density measurement with hands on instruction covering configuration, calibration, and troubleshooting. You will learn how to:

- Explain how Micro Motion Coriolis meters work and identify key components
- Apply best practices for sensor and transmitter installation and wiring
- Configure Coriolis meters to measure flow, density, and temperature
- Perform flow calibration and master reset procedures
- Troubleshoot common meter and process issues
- Understand Modbus communications and data handling

**Designed for:**
Maintenance technicians, instrument technicians, and instrumentation engineers involved in installing, configuring, and troubleshooting Micro Motion Coriolis meters.



### Rosemount Pressure, Temperature & MultiVariable Flow Transmitters (2829)

Build comprehensive skills across multiple transmitter technologies using hands on learning in a realistic plant environment. You will learn how to:

- Install, configure, calibrate, and maintain pressure, temperature, and multivariable flow transmitters
- Apply classroom knowledge directly to real world scenarios using the Interactive Plant Environment
- Develop confidence working with multiple measurement technologies in live process conditions

**Designed for:**
Professionals responsible for the installation, configuration, calibration, and maintenance of Rosemount pressure, temperature, and multivariable flow transmitters.

### Rosemount 470XA Gas Chromatograph (R4400)

Strengthen your understanding of gas chromatography through focused training on analytical hardware, sample systems, and software tools. You will learn how to:

- Identify major components of the 470XA gas chromatograph and analytical oven
- Understand detector and column theory
- Operate and navigate MON2020 software
- Perform leak checking, validation, and calibration
- Troubleshoot common chromatograph and sample system issues

**Designed for:**
Professionals responsible for operating, maintaining, and troubleshooting gas chromatographs and gas measurement systems.

### Micro Motion Coriolis Product Interactive Plant Environment (5705)

Advance your Coriolis measurement skills through extensive hands on exercises in a simulated plant environment. You will learn how to:

- Apply Coriolis measurement fundamentals in real world scenarios
- Install, configure, and calibrate Micro Motion metering systems
- Use tools such as ProLink® III, AMS Device Manager, LOI, and field communicators
- Troubleshoot common meter and process issues step by step

**Designed for:**
Instrumentation professionals seeking hands on experience applying Micro Motion Coriolis measurement technologies in live process conditions.

### Rosemount 8700 Series Magnetic Flowmeter Interactive Plant Environment (5715)

Gain practical experience applying magnetic flow measurement principles through hands on plant based training. You will learn how to:

- Explain Faraday's Law and magnetic flowmeter principles
- Identify transmitter and sensor components and functionality
- Configure and test Rosemount 8700 Series transmitters
- Perform calibration checks and systematic troubleshooting
- Respond to common process issues using a simulated plant environment

**Designed for:**
Maintenance technicians, instrument technicians, and instrumentation engineers working with Rosemount magnetic flowmeter systems.

### Rosemount 8800 Series Vortex Flowmeter Interactive Plant Environment (5716)

Build confidence installing, configuring, and maintaining vortex flow measurement systems using hands on, scenario based training. You will learn how to:

- Explain vortex flow principles and the von Kármán Effect
- Identify vortex flowmeter components and understand functionality
- Install, configure, and test Rosemount 8800 Series vortex flowmeters
- Apply step by step troubleshooting techniques for common issues
- Practice maintenance tasks in a simulated plant environment

**Designed for:**
Instrumentation professionals responsible for installing, configuring, and troubleshooting Rosemount vortex flowmeter systems.

### Rosemount X Stream Process Gas Analyzers (2170)

Build practical understanding of process gas analyzers through hands on operation and troubleshooting of XE analyzers. You will learn how to:

- Understand photometric measurement principles including infrared, ultraviolet, paramagnetic, and thermal conductivity
- Configure and work with electronic boards and signal processing
- Perform calibration and configure analyzer software parameters
- Execute troubleshooting procedures using test points and diagnostics
- Perform mechanical assembly and disassembly of analyzer components

**Designed for:**
Technicians, engineers, and professionals responsible for installation, maintenance, and troubleshooting of process gas analyzer.



### Rosemount 700XA & 1500XA Process Gas Chromatograph Intermediate (R4213 / R4214)

Expand your capability to operate and maintain process gas chromatographs in industrial environments. You will learn how to:

- Operate Rosemount 700XA and 1500XA gas chromatographs
- Perform routine maintenance and basic repair tasks
- Apply operational best practices in real plant conditions
- Support chromatograph reliability and performance in ongoing operations

**Designed for:**
Professionals working in technical environments with prior experience in gas chromatography or those who have completed introductory GC training.

### Rosemount 3051 Pressure & 3144P Temperature Transmitters (2398)

Develop essential skills to install, configure, and maintain pressure and temperature transmitters. You will learn how to:

- Understand the principles of operation for smart and analog transmitters
- Install and wire pressure and temperature sensors correctly
- Configure and test devices using a Field Communicator
- Perform calibration, digital trims, and troubleshooting
- Maintain transmitter performance in real operating environments

**Designed for:**
Technicians and professionals responsible for installation, calibration, and maintenance of pressure and temperature instrumentation.



## From Knowledge to Confident Execution

The goal of measurement instrumentation training is simple: to help you work with confidence to:

- Trust your measurements
- Respond quickly to issues
- Apply diagnostics effectively
- Support safe, reliable, and efficient operations

By combining Emerson's measurement expertise with hands on training, you gain the capability to turn instrumentation into a lasting operational advantage.

## Take the Next Step

Explore upcoming Measurement Instrumentation training and continue developing the skills you need to support today's operations and tomorrow's challenges with confidence.

**Visit Mytraining To Explore Courses And Register**

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