Emerson certified trainers understand your industry, and bring our deep product expertise into the classroom. With ready access to the collective Emerson knowledge and talent pool, your local trainer can provide a precise answer to your most complex questions.

Emerson certified trainers have the following qualifications:

**Experienced** with field expertise in each specific Rosemount product

**Educated** through rigorous technology coursework and certification processes

**Trained** certified on Rosemount products and trained in adult learning techniques
Course 2320: Rosemount Measurement Instrument Fundamentals

Overview:
This three-day course explains the measurement technology for Pressure, Temperature, Flow, and Level instruments. It will also emphasize proper installation of these instruments. Those who complete this class will be able to:

Topics:
• 4–20mA Electrical Loops
• Pressure Sensors
• Pressure Instruments
• Temperature Sensors
• Temperature Instruments
• Analog Transmitters
• Smart Transmitters
• HART Communication Protocol
• Field Communicator
• DP Flow
• Flow Technology Overview
• DP Level
• Electronic Remote Sensors
• Guided Wave Radar Level Instruments
• Non-Contacting Radar Level Instruments
• Self-Organizing Wireless Networks

Prerequisites:
Students should have experience with process instrumentation and measurements.

Cost: $900

Courses are available in Minneapolis, Minnesota.

Course 2326: Rosemount Process Measurement Products I (Pressure & Temperature)

Overview:
This four-day course explains how pressure and temperature transmitters function and how they are installed and calibrated. It emphasizes installation, proper set-up, and calibration of Analog and HART® Pressure and Temperature Transmitters. The course uses lectures and labs to teach the students. Students who complete this course will be able to:

Topics:
• Correctly perform installation and setup procedures
• Properly configure transmitters
• Properly calibrate transmitters
• Perform basic troubleshooting

Prerequisites:
Some experience in instrument calibration, maintenance, installation, and operation would be helpful.

Cost: $1,800

Courses are available in Eden Prairie, Minnesota.

View Course Schedule Here >
Course 2327: Rosemount Process Measurement Products II (DP Flow)

Overview:
This two-day course explains how DP flow instruments function and how they are installed and calibrated. It emphasizes installation, proper setup, and calibration/verification of DP flow instruments. The course uses lectures and labs to teach the students. Students who complete this course will be able to:

- Correctly install, configure, calibrate, MultiVariable DP Flow Transmitters
- Perform DP Flow troubleshooting

Topics:
- Basic DP Flow Fundamentals
- DP Flow Sizing Calculations
- Multivariable Flow Transmitters
- AMS Device Manager with Engineering Assistant SNAP-ONTM (3095)
- Engineering Assistant for 3051SMV
- Field Communicator
- Test Equipment Selection
- Installation
- Configuration
- Calibration/Verification
- Troubleshooting DP Flow Installations

Prerequisites:
Some experience in instrument calibration/verification, maintenance, installation, and operation would be helpful.

Cost: $1,400

Courses are available in Eden Prairie, Minnesota.

View Course Schedule Here >

Course 2329: Rosemount Pressure, Temperature & MultiVariable™ Flow Transmitters

Overview:
This two-day course uses lectures and labs to maximize the hands-on experiences and teach the student how to install, configure, calibrate, troubleshoot, and maintain the Rosemount 3051, 3144P, and 3051SMV Transmitters.

Topics:
- Field Communicator Operation
- 3051 Pressure Transmitter Installation, Configuration, Calibration, and Troubleshooting
- 3144P Temperature Transmitter Installation, Configuration, Calibration, and Troubleshooting
- 3051SMV MultiVariable DP Flow Transmitter Installation, Configuration, Calibration, and Troubleshooting

Note: Students must attend both days. Reference course 2305, 2321, and 2308MV for further details.

Prerequisites:
Students should have experience with process instrumentation and measurements.

Cost: $1,300

Courses are available in Eden Prairie, Minnesota.

View Course Schedule Here >
**Course 2333: Rosemount Process Measurement Products III (Level)**

**Overview:**
This three-day course explains how level instruments function and how they are installed and calibrated/verified. It emphasizes installation, proper setup and calibration/verification of level instruments. The course uses lectures and labs to teach the students. Student who complete this course will be able to correctly install, configure, calibrate and verify, perform maintenance and troubleshooting with:

- DP Level Transmitters
- Guided Wave Radar Transmitters
- Non-contacting Radar Transmitters
- Radar software for configuration and troubleshooting

**Topics:**
- DP Level Fundamentals
- Electronic Remote Sensors
- Radar Applications
- Radar Instruments
- Radar PC Software
- Field Communicator
- Test Equipment Selection
- Installation
- Configuration
- Calibration/Verification
- Troubleshooting

**Prerequisites:**
Experience in instrument calibration, maintenance, installation, and operation would be helpful.

**Cost:** $1,600

Courses are available in Eden Prairie, Minnesota.

[View Course Schedule Here >](#)

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**Course 2337: Rosemount 5300 High Performance Guided Wave Radar HART Level Transmitter**

**Overview:**
This one-day course uses lecture and labs to maximize the hands on experience and teach the student how to install, configure, troubleshoot and maintain the Rosemount 5300 High Performance GWR Transmitters. Students who complete this course will be able to:

- Explain the principles of operation of the 5300 GWR
- Identify 5300 GWR parts and explain their functionality
- Understand the available probe options and when each should be used
- Properly install and wire the 5300 GWR
- Configure and test the 5300 GWR
- Understand how to setup the 5300 GWR to work in different applications
- Properly troubleshoot the 5300 GWR Transmitter and Installation using Radar Master software

**Topics:**
- 5300 Overview and Principles of Operation
- Installation of the 5300 GWR
- Wiring the 5300 GWR
- Configuration of the 5300 GWR
- Bench Testing the 5300 GWR
- Field Communicator Operation
- AMS Device Manager Operation
- Radar Master Software Operation
- Troubleshooting and Maintenance
- Tank & Application Troubleshooting and Echo Handling Using Radar Master Software

**Prerequisites:**
Knowledge of basic level fundamentals and instrumentation.

**Cost:** $750

Courses are available in Minneapolis, Minnesota.

[View Course Schedule Here >](#)
Course 2370: Rosemount - Fieldbus Measurement Instruments

Overview:
This three-day class covers the integration of FOUNDATION™ fieldbus compliant measurement devices using the Field Communicator, Emerson USB Fieldbus Modem, AMS Device Manager, and other hosts. Upon completion of this course students will be able to: install, configure, calibrate, and troubleshoot Rosemount Fieldbus devices which include the 3051C and 3051S Pressure Transmitters, 644, 3144P and 848 Temperature transmitters, 5600, 5400 and 5300 Radar Level Transmitters, and 752 Indicator.

Topics:
- FOUNDATION fieldbus Overview
- Fieldbus: Wiring/Segment Design/Function Blocks
- Field Communicator Operation
- AMS Device Manager Operation
- Theory of Operation, Installation, Configuration, Maintenance, Calibration and Troubleshooting on the following:
  - 3051C Pressure Transmitter
  - 3051S Pressure Transmitter
  - 3144P and 644 Temperature Transmitters
  - 848 Temperature Transmitter
  - 5600/5400/5300 Radar Level Transmitters
  - 752 Fieldbus Indicator
  - Troubleshooting

Prerequisites:
Experience in instrument calibration, maintenance, installation, and operation would be helpful.

Cost: $1,800

Courses are available in Eden Prairie, Minnesota.

Course 2375: Rosemount Wireless Self Organizing Network (2 day)

Overview:
This two-day course explains how Self Organizing Wireless Networks function and how they are installed, setup, configured, and integrated. It emphasizes planning, proper installation and startup, configuration, maintenance, and integration. The course uses lectures and labs to maximize the hands-on experience and teach the students.

Topics:
- How Self Organizing Networks Function
- Self Organizing Networks Best Practices
- Network Components
- 1420 & 1410 Installation and Setup
- Network Parameters
- Wireless Transmitters Installation, Configuration, Maintenance, and Calibration
- THUMTM Adapter Installation, Wiring, and Configuration
- Integrating and Operating AMS Device Manager with the 1420 Wireless Gateway
- Operation of AMS Wireless SNAP-ON
- Modbus Serial Integration
- Modbus TCP Integration
- OPC Integration

Prerequisites:
Some experience in Wireless Networks and Host integration would be helpful.

Cost: $1,400

Courses are available in Eden Prairie, Minnesota.

View Course Schedule Here >
Course 7021: AMS Device Manager with Rosemount HART Instruments

Overview:
Learn the installation, calibration, maintenance, and troubleshooting of measurement instrumentation using AMS Device Manager. This three-day course teaches maintenance and calibration of measurement devices using AMS Device Manager software to communicate and track information. The student will learn how pressure and temperature transmitters function, are installed, and calibrated using AMS Device Manager.

Topics:
• Configuring and Using AMS Device Manager
• Viewing and Modifying Devices
• Creating a Plant Database Hierarchy and Adding Devices
• AMS Device Manager Browser Functions
• Audit Trail
• HART Communication
• HART Transmitters (3051C, 3144P)
• Test Equipment Selection
• Transmitter Installation and Configuration
• Transmitter Calibration
• AMS Calibration Assistant
• Intelligent Calibrators
• Transmitter Troubleshooting

Prerequisites:
Experience in instrument calibration, maintenance, installation, and operation would be helpful.

Cost: $1,600
Courses are available in Eden Prairie, Minnesota.

View Course Schedule Here >

Registration Information

To register online: Click here, MyCONNECT or go to www.Emerson.com/MyCONNECT
To register by phone: Call Emerson Educational Services at 1-800-338-8158
For additional questions or a list of courses, please visit www.Emerson.com/Education

Purchase order or credit card required for enrollment.

Credit cards preferred: Most major credit cards accepted.

Purchase orders must be made out to:
Emerson Automation Solutions LLLP
c/o Educational Services
1100 West Louis Henna Blvd. - Bldg 1
Round Rock, TX 78681-7430
Payment Terms: Net 30 days
Please Include on PO: Student's Name, Course Number
Emerson's Payment Terms (Net 30 Days), and Course Tuition Price

Please email all purchase orders to Education@Emerson.com

Please Note: To complete the registration process, attendees must register through MyCONNECT or call the registration center (800-338-8158). Only receipt of purchase order guarantees a seat.

Cancellations
You may cancel your reservations up to 14 calendar days prior to the start of the course without incurring a cancellation fee. 50 percent of the full tuition will be charged for cancellations received during the 14 days prior to the start of the course, and full tuition will be charged for failure to attend without cancelling. Substitutions are accepted until the first day of class. Scheduled courses may be cancelled due to low enrollment.