

Certified Technical Training for Emerson Flow Instruments

Helping you to maximize your Flow instrument investment



Utilize the full range of product features to achieve the highest value from your flow, density and viscosity meter.

Emerson Certified Flow Training ensures your instrument technicians and engineers know how to correctly install, configure, startup and troubleshoot your Micro Motion® Coriolis flow, density and viscosity meters, and Rosemount® Magnetic and Vortex flowmeters. The instructors share their real world experience and lead students through extensive hands-on exercises using the latest configuration tools. This maximizes the training effectiveness and enables attendees to quickly apply their new skills and knowledge on the job.

Understanding Emerson Flow technologies can enable you to:

1. Quickly and easily commission and startup new instruments
2. Properly install instruments using best practices
3. Troubleshoot instrument problems
4. Improve instrument lifecycle
5. Reduce downtime
6. Increase production

Emerson Certified Instructors offer in-depth product training either at our factory, at local Emerson offices, at hotels in your area or right at your training facility.

Types of training offered: Emerson offers several types of training to help you understand our products and how to use them within your process. Instructor led classroom training provides a blend of lectures, hands-on practice and demonstrated learning exercises using functional demos. Emerson now offers online technician training that provides the flexibility for students to take training when it fits their schedule. On-line content also provides an option for access to just-in-time “how-to” content months after attending an instructor led class.

- **Classes at our headquarters in Boulder or Eden Prairie** - conducted by Emerson Certified Trainers and provides an opportunity to meet and learn from other Micro Motion and Rosemount experts
- **Public classes in the field at regional offices or hotel sites** - conducted locally by Emerson Certified Field Service Trainers. Provides a convenient and cost-effective option to attend training when there are not enough students for you to justify a class at your site.
- **On-site training at your facility** - conducted by Emerson Certified Field Service Trainers. This training can be tailored to specifically address how to maximize your meter investment for your application.
- **On-site training purchased as part of a start-up service** - conducted by Emerson Field Service Technicians. Informal, over-the-shoulder training where a small group of your technicians can witness and learn about meter startup and operation from our certified technicians as they commission your meters.
- **Online Micro Motion technician training** - four to five hour self-guided, professionally narrated and interactive curriculum covering the commissioning of Micro Motion Coriolis sensors & 2700 transmitters. Designed for customers who want the training that fits their schedule or provides just-in-time refreshers. This class covers today’s task, long after the skills learned at an instructor led training class are forgotten.

MEASUREMENT EXPERTISE
for customer training



The training offered applies to Micro Motion® Coriolis Flowmeters, Rosemount® Magnetic Flowmeters, Vortex Flowmeters, Density/Viscosity Meters and Specific Gravity Meters across all applications. Questions during these training courses about specifics of an application are encouraged.

<p>Micro Motion Comprehensive Product Training (Course 2352) CEUs: 2.1 Price: \$1,250/person</p>	<p>This 3-day class covers the installation, configuration, and calibration of Micro Motion Coriolis metering systems. Students will learn the Series 1000/2000 transmitters using ProLink, HART Communicator, and the Series 3000 interface devices. Students will perform a master reset, use ProLink to configure the Series 1000/2000, perform a flow calibration, and solve troubleshooting problems. On the third day, based on student need, we will cover one or all of the following topics: RFT9739 transmitter, T-Series, R-Series, Series 3000 platform, and IFT9701/9703 transmitters.</p>
<p>Micro Motion Modbus Digital Communication (Course 2381) CEUs: 0.7 Price: \$650/person <i>*Save \$100 if you take this course the same week with Course 2352</i></p>	<p>This 1-day course is for personnel who have any of the following responsibilities:</p> <ul style="list-style-type: none"> • Installing a Micro Motion Coriolis transmitter on an RS-485 network • Configuring, calibrating, operating, or troubleshooting a Micro Motion transmitter using Modbus protocol • Setting up a Modbus host or PLC to communicate with a Micro Motion Coriolis transmitter • Writing programs that use Modbus protocol to communicate with Micro Motion transmitters <p>Students will learn the Modbus communications model, including RS-485 network requirements, memory structure, datatypes, functions, character framing, and message framing. Students will use Micro Motion Modbus documentation and a Modbus tool to configure transmitter features, read process data, reset totals, read and acknowledge alarms, analyze diagnostic registers, zero the flowmeter, perform a loop test, and manage a batch process.</p>
<p>Micro Motion Coriolis & Rosemount Smart 8800 Vortex Flowmeters (Course 2387) CEUs: 1.4 Price: • \$6600 (for up to 10 people) + Expenses – Customer Site • \$700/person/day, \$1300 for both days (inclusive) – Public Class</p>	<p>This 2-day course consists of a blend of lectures and hands-on exercises that cover the installation, configuration, calibration checks and troubleshooting.</p> <p>Day one covers Micro Motion Coriolis sensors with the Series 1000/2000 transmitters and peripherals. Day two covers the Rosemount Smart 8800 Vortex flowmeter. This course includes hands-on exercises. Courses held at customer specified sites can be customized to address specific transmitters and configuration tools. Public registration classes cover a broader range of equipment based on the needs of the attendees.</p>
<p>Micro Motion Series 1000/2000 Transmitters (Course 2358) CEUs: 0.7 Price: • \$3300 (for up to 10 people) + Expenses – Customer Site • \$700/person (inclusive) – Public Class</p>	<p>This 1-day course consists of a blend of lectures and hands-on exercises that cover the installation, configuration, calibration checks and troubleshooting of Micro Motion Coriolis sensors with the Series 1000/2000 transmitters and peripherals. This course includes hands-on exercises. Courses held at customer specified sites can be customized to address specific transmitters and configuration tools. Public registration classes cover a broader range of equipment based on the needs of the attendees.</p>
<p>Micro Motion 3098 Gas Specific Gravity (Course 2386) CEUs: 0.7 Price: • \$3300 (for up to 10 people) + Expenses – Customer Site • \$700/person (inclusive) – Public Class</p>	<p>This 1-day course consists of a blend of lectures and hands-on exercises that cover an overview of the operating principle, key components and applications of a Micro Motion 3098 Gas Specific Gravity Meter. The process of commissioning a Micro Motion 3098 Gas Specific Gravity Meter is covered including: installation, wiring, configuration and field calibration at initial startup. Troubleshooting of commonly seen issues is also covered. This course includes hands-on demonstrations.</p>
<p>Wireless: Micro Motion Coriolis & Rosemount Smart Magnetic and Vortex Flowmeters (Course 2383) CEUs: 0.7 Price: • \$3300 (for up to 10 people) + Expenses – Customer Site • \$700/person (inclusive) – Public Class</p>	<p>This 1-day course consists of a blend of lectures and hands-on exercises that cover a basic overview of wireless capabilities with a Micro Motion Coriolis flowmeter, Rosemount 8700 Series Magnetic and Rosemount 8800 Series Vortex meters. Based on customer need, the class can be taught for each individual product. The course provides a step-by-step process for the following: how to install and wire a 775 Smart Wireless THUM to each transmitter, how to configure the THUM, how to configure the 1420 Wireless Gateway to the THUM using AMS, and how to add and view the Micro Motion and Rosemount transmitters to the gateway.</p>
<p>Micro Motion Sensors and RFT9739 or 9739MVD Transmitter (Course 2351) CEUs: 0.7 Price: • \$3300 (for up to 10 people) + Expenses – Customer Site • \$700/person (inclusive) – Public Class</p>	<p>This 1-day course consists of a blend of lectures and hands-on exercises that cover the installation, configuration, calibration checks and troubleshooting of Micro Motion Coriolis ELITE®, F-Series and D sensors with the RFT9739 or 9739MVD transmitters and peripherals. This course includes hands-on exercises. Courses held at customer specified sites can be customized to address specific transmitters and configuration tools. Public registration classes cover a broader range of equipment based on the needs of the attendees.</p>



<p>Rosemount 8700 Series Smart Magnetic Flowmeters (Course 2340) CEUs: 0.7 Price: <ul style="list-style-type: none"> • \$3300 (for up to 10 people) + Expenses – Customer Site • \$700/person (inclusive) – Public Class </p>	<p>This 1-day course consists of a blend of lectures and hands-on exercises that cover how to install, configure, and maintain the Rosemount 8700 Series Magnetic Flowmeter Systems composed of the Model 8712 and 8732 Transmitters and the 8705 Flanged and 8711 Wafer Sensors. The students will learn the operation and capabilities of the Local Operator Interface & Field Communicator and how to use these tools to perform configuration. Common issues encountered and troubleshooting techniques will also be covered.</p>
<p>Rosemount 8800 Series Smart Vortex Flowmeters (Course 2341) CEUs: 0.7 Price: <ul style="list-style-type: none"> • \$3300 (for up to 10 people) + Expenses – Customer Site • \$700/person (inclusive) – Public Class </p>	<p>This 1-day course consists of a blend of lectures and hands-on exercises that cover how to install, configure, and maintain the Rosemount 8800 Series Smart Vortex flowmeter systems. The students will learn the operation and capabilities of the Local Operator Interface & Field Communicator and how to use these tools to perform configurations. Common issues encountered and troubleshooting techniques will also be covered.</p>
<p>Introduction: Rosemount 8700 Series Magnetic & 8800 Series Vortex Flowmeters (Course 2394) CEUs: 0.7 Price: <ul style="list-style-type: none"> • \$3300 (for up to 10 people) + Expenses – Customer Site • \$700/person (inclusive) – Public Class </p>	<p>This 1-day course is an abbreviated version of the 2340 and 2341 courses for Rosemount 8700 Series Magnetic and 8800 Vortex flowmeters. It is intended to provide a very basic introduction and overview of the operation, proper installation and configuration of each device using a blend of lectures and brief hands-on exercises. The students will also learn the basic operation of the Local Operator Interface & Field Communicator. A brief overview of troubleshooting techniques will also be covered, but not in the same depth as the 1-day class for each flowmeter.</p>
<p>Introduction: Rosemount 8700 Series Magnetic & 8800 Series Vortex Flowmeters (Course 2329) CEUs: 1.4 Price: <ul style="list-style-type: none"> • \$6600/day (for up to 10 people) + Expenses • \$700/person/day, \$1250 if both days (inclusive) </p>	<p>This 2-day course is a combined version of the 2340 and 2341 courses for Rosemount 8700 Series Magnetic and 8800 Series Vortex flowmeters. It consists of a blend of lectures and hands-on exercises that cover how to install, configure, and maintain the each flowmeter type. The students will learn the operation and capabilities of the Local Operator Interface & HC475 HART Communicator and how to use these tools to perform configuration. Common issues encountered and troubleshooting techniques will also be covered.</p>
<p>Introduction: Rosemount 8700 Series Magnetic & 8800 Series Vortex Flowmeters with AMS (Course 2339A) CEUs: 1.4 Price: <ul style="list-style-type: none"> • \$6600 (for up to 10 people) + Expenses – Customer Site • \$700/person/day, \$1250 for both days (inclusive) – Public Class </p>	<p>This 2-day course is a combination of the 2340 and 2341 courses for the Rosemount 8700 Series Magnetic and 8800 Series Vortex flowmeters. It consists of a blend of lectures and hands-on exercises that cover how to install, configure, and maintain the Magnetic and Vortex flowmeters. The students will learn the operation and capabilities of the Local Operator Interface and how to use AMS to perform configuration. Common issues encountered and troubleshooting techniques will also be covered.</p>
<p>Micro Motion Coriolis & Rosemount Magnetic & Vortex Smart Flowmeters (Course 2380) CEUs: 2.8 Price: \$1800/person</p>	<p>This 4-day class consists of a blend of lectures and hands-on exercises that cover the installation, configuration, and calibration of the metering system. Students will learn how to work on the Micro Motion Coriolis Series 1000/2000 transmitters using ProLink III, HC475, and the Series 3000 interface devices the first two days. The third day will cover the same topics for the Smart 8700 Magnetic flowmeter and the Rosemount Smart 8800 Vortex flowmeter will be covered the fourth day. Students will also learn the approach to uncover the most common problems encountered in the field and the troubleshooting techniques to correct them.</p>
<p>Micro Motion Coriolis & Rosemount Smart 8700 Magnetic Flowmeters (Course 2384) CEUs: 1.4 Price: <ul style="list-style-type: none"> • \$6600 (for up to 10 people) + Expenses – Customer Site • \$700/person/day, \$1250 for both days (inclusive) – Public Class </p>	<p>This 2-day course consists of a blend of lectures and hands-on exercises that cover the installation, configuration, calibration checks and troubleshooting. Day one covers Micro Motion Coriolis sensors with the Series 1000/2000 transmitters and peripherals. Day two covers the Rosemount Smart 8700 Series Magnetic flowmeter. This course includes hands-on exercises. Courses held at customer specified sites can be customized to address specific transmitters and configuration tools. Public registration classes cover a broader range of equipment based on the needs of the attendees.</p>

Online Training

With staff levels at a minimum and the pressures of keeping the process running, you may have difficulty having your people attend an all day training class, even if the class is held locally or at your plant site. Online training is becoming an attractive option to replace or to complement face-to-face training in a classroom.

In this area we offer an online curriculum for Coriolis flowmeters. The curriculum is approximately 5-6 hours in length. It starts with the fundamentals covering Theory of Operation and Installation Best Practices. The core of content then covers the step-by-step process of commissioning a Coriolis flowmeter. This includes wiring, establishing communication with one of the four Configuration Tools (Prolink® III, AMS Device Manager, HC475 Field Communicator or Display), and then covering how to configure the key parameters of the transmitter using each tool. These "how-to" modules are interactive and allow the student to experience the use of each tool. The final modules cover the remaining steps of the startup.

This new online training allows you to learn at a time that is convenient for you. Viewing our fundamental modules as pre-work for our instructor led training, allows more time for hands-on practice to master the skills you can use on the job. Online content also provides refresher learning materials long after class attendance when some skills may have been forgotten.

Our online training offering is specifically designed to help educate individuals who are responsible for startup and maintenance of the equipment. The content in these training courses was written by our company subject matter experts and it is based on years of field experience assisting customers. The modules are professionally narrated and are interactive. This allows the viewer to experience how to use the configuration tool of their choice to complete each task. The modular design of the information provides the flexibility to view as a full curriculum or just a specific module.

Class Schedule and Registration:

Hold a Class at Your Plant/Training Center.

To discuss your needs, get a price proposal or to schedule a class at your plant or training center for up to 10 attendees, call the **North American Response Center:**

(800)-654-7768

Local, Open Enrollment Field Classes (Hotel or Emerson Office)

Local open enrollment training classes provide a cost-effective option for those customers that have only a few technicians that need training and where the cost of a dedicated class at their plant site cannot be justified. This provides a cost-effective option to share the expense of conducting the class with other companies.

Check the schedule for a class offered in your area:

<http://www2.emersonprocess.com/en-US/brands/edservices/fielddevices/MicroMotion/Pages/MicroMotionTraining.aspx>

To Register for a class, contact Educational Services:

E-mail: education@emersonprocess.com

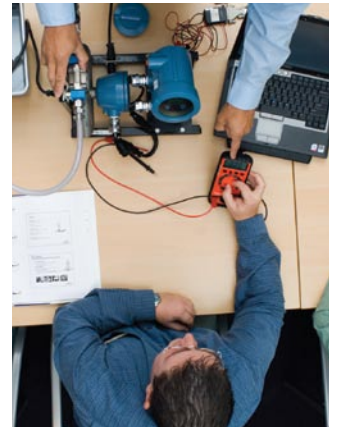
Phone: (800) 338-8158

Online Training:

To get more information on new online offerings that cover the startup and commissioning of Coriolis flowmeters, please contact your local Micro Motion sales representative or contact Micro Motion directly at:

Phone: (800) 522-6277

To call outside the U.S. please use this phone number:
+1(641) 754-3771



FOR MORE INFORMATION, VISIT WWW.EMERSONPROCESS.COM

EMERSON WORLD-LEADING
FLOW AND DENSITY
technology

SETS THE STANDARD FOR
RELIABLE, REPEATABLE,
HIGH PERFORMANCE
MEASUREMENT



Emerson's Micro Motion and Rosemount devices are known globally in over 85 countries for quality, reliability, application expertise, and support not available elsewhere.



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