

# EDUCATIONAL SERVICES

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## Micro Motion® Modbus® Digital Communication

### Course 2381

**Course Length/Location:** One-day course offered at Micro Motion in Boulder, CO

**Price:** \$600/person \*Save \$100 if you take this course the same week with Course 2352.

### Learning Objectives:

After attending this course the student will be able to do the following:

- Be able to explain the fundamentals for the Modbus protocol model.
- Be able to configure, commission, read process data, view & analyze key diagnostic registers, and loop test a batch application using a Micro Motion meter.
- Set up a host system or PLC to communicate with a Micro Motion transmitter via Modbus.

### Description:

This one-day class consists of a blend of lectures and hands-on exercises. Students will learn the Modbus communications model, including RS-485 network requirements, memory structure, data types, functions, character framing, and message framing. Students will use Micro Motion's Modbus documentation set and 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. Troubleshooting will also be covered.

### Prerequisites:

Students should have completed Micro Motion Comprehensive Product Training, Course 2352, or have equivalent knowledge or experience.

### Target Audience:

This one-day course is appropriate for personnel who have any of the following responsibilities: installing a Micro Motion 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 transmitter, or writing programs that use Modbus protocol to communicate with Micro Motion transmitters.

**Cancellations:** If your plans or budgets change, you may cancel your reservations up to 14 calendar days prior to the start of the course without incurring a cancellation charge. Limited enrollment makes it necessary to charge 50% of the full tuition for cancellations received during the 14 days prior to the start of the course, and full tuition for failure to attend without cancelling. Substitutions are accepted until the first day of class.



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