

AMS Device Manager

Course 7020 CEUs: 2.1

Overview Completing 3-days of AMS Device Manager hands-on instructor assisted training modules and exercises, provides the quickest route to your productive use of this predictive maintenance application. The training exercises focus on skills required by engineers and technicians, and are based on real-world tasks that most users will encounter on the job.

7020-1 Configuring and Using AMS Device Manager

- Viewing and Modifying Devices
- Creating a Plant Database Hierarchy and Adding Devices
- Field Communicator - AMS Device Manager
- AMS Device Manager Browser Functions
- Audit Trail
- Calibrating Device - Calibration Assistant
- Configuring and Monitoring System Alerts

7020-2 System Administration

- AMS Device Manager System Overview
- Installing an AMS Device Manager Server Plus Standalone
- Starting AMS Device Manager for the 1st Time
- Network Communication Interface Setup
- AMS Device Manager Database Management
- Installing a Distributed System
- Installing Device Types from Media

7020-3 SNAP-ON™ Applications

- AMS ValveLink® SNAP-ON Application-Basics
- MV Engineering Assistant SNAP-ON Application - Basics
- AMS Wireless SNAP-ON Application
- QuickCheck™ SNAP-ON Application
- Using AMS Device Manager OPC Server and the Matrikon OPC Explorer
- AMS Device Manager Web Services

This instructor assisted course is operated in a hands-on, self-paced environment, which allows the student to work at their individual pace. Training can also be delivered at your plant with the help of our certified instructors. AMS Device Manager modules may be purchased for self-study for \$195 each or \$495 for all three paper/bound modules.

To Order

Please contact your local sales representative or visit site below to locate your regional office:

<http://www2.emersonprocess.com/en-US/brands/fisher/Contacts/Pages/Contacts.aspx>

Price \$1,950 (*additional \$150)

Location	Start Date 2012
Austin, TX	2/21, 6/12, 9/18
Marshalltown, IA	4/17
Eden Prairie, MN	5/15, 7/10, 8/21, 12/11
Las Vegas, NV*	3/20, 10/16
Ontario, CA*	7/24
Edmonton, AB	4/17, 8/21, 10/9
Fort McMurray, AB	7/31
Burnaby, BC	12/4

AMS Device Manager with Rosemount HART Instruments

Course 7021 CEUs: 2.1

Learn the installation, calibration, maintenance, and troubleshooting of measurement instrumentation using AMS Device Manager. The hands-on focus is on skills required by engineers, technicians, or others that are new to the plant or instrument environment.

Overview

This 3-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. The course uses hands-on training, labs, and lecture to teach the student how to:

- configure and use AMS Device Manager
- correctly perform transmitter installation and setup procedures
- properly configure SMART transmitters
- properly calibrate transmitters
- perform basic troubleshooting-transmitters

Topics

- Configuring and Using AMS Device Manager
- HART Communication
- SMART Transmitters (3051C, 3144P)
- Test Equipment Selection
- Transmitter Installation
- Transmitter Configuration
- Transmitter Calibration
- AMS Device Manager Calibration Assistant SNAP-ON
- Intelligent Calibrators
- Transmitter Troubleshooting

Price \$1,600

Location	Start Date 2012
Eden Prairie, MN	4/24



AMS Device Manager with Fisher HART Instrumentation

Course 7022 CEUs: 2.1

This 3-day course is designed to teach technicians and engineers how to commission, calibrate, configure, maintain, and troubleshoot Fisher smart devices using AMS Device Manager and the AMS ValveLink SNAP-ON.

Overview

The course begins with an introduction to the features and functionality of the AMS Device Manager software. It delves into device-specific techniques for commissioning, maintaining, and troubleshooting the following Fisher smart devices:

- DVC6000 Digital Valve Controller
- DLC3000 Digital Level Controller

Prerequisites

None, though a basic familiarity with Fisher smart devices will be beneficial.

Topics

- Introduction to AMS Device Manager
- Getting Started with AMS Device Manager
- Replacing and Deleting Devices
- Field Communicator
- Using the Audit Trail
- Monitoring System Alerts
- DVC6000 View from AMS Device Manager
- AMS ValveLink SNAP-ON Features and Functionality
- AMS ValveLink SNAP-ON Digital Valve Controller Diagnostics

Price \$2,000

Location	Start Date 2012
Marshalltown, IA	3/14, 8/1
Edmonton, AB	6/19, 9/25

AMS Device Manager with FOUNDATION™ fieldbus

Course 7038 CEUs: 2.8

Overview

This 4-day lab/lecture course is for individuals who use AMS Device Manager integrated with the DeltaV™ system to calibrate, commission, and configure FOUNDATION™ fieldbus devices. The training exercises are based on real-world tasks that most users will encounter on the job.

Prerequisites

It is recommended that attendees have a general understanding of process control, control valves and transmitters.

Topics

- DeltaV Overview
- FOUNDATION™ fieldbus Overview
- AMS Device Manager Overview
- AMS Device Manager Browser functions
- Viewing and Modifying Devices
- Creating a Plant Database Hierarchy
- Commissioning Devices
- AMS Device Manager with HART Devices
- Replacing Devices
- Audit Trail
- Calibrating Devices
- Configuring and monitoring System Alerts
- AMS ValveLink® SNAP-ON Application
- Engineering Assistant SNAP-ON Application Application
- QuickCheck™ SNAP-ON Application
- AMS Wireless SNAP-ON
- Micro Motion Meter Verification SNAP-ON Application
- AMS Device Manager Web Services
- AMS Device Manager Administration

Price \$2,700

Location Austin, TX **Start Date 2012** 5/21, 10/22

Fieldbus Measurement Instruments

Course 2370 CEUs: 3.2

This course is for individuals responsible for installing, configuring, calibrating, and troubleshooting FOUNDATION™ fieldbus measurement devices.

Overview

This 4-1/2 day class covers the integration of FOUNDATION™ fieldbus compliant measurement devices using the Field communicator. 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, 8742 Magnetic Flow transmitter, 8800C Vortex Flow transmitter, 5600 and 5400 Radar Level Transmitter, 752 Indicator, and the 3420 Fieldbus Interface Module (FIM).

Prerequisites

Experience in instrument calibration, maintenance/installation/operation would be helpful.

Topics

- FOUNDATION™ fieldbus Overview
- Fieldbus: Wiring/Segment Design/Function Blocks
- Field Communicator Operation
- Theory of Operation, Installation, Configuration, Maintenance, Calibration and Troubleshooting on the following Rosemount Devices:
 - 3051C Pressure Transmitter
 - 3051S Pressure Transmitter
 - 3144P and 644 Temperature Transmitter
 - 848 Temperature Transmitter
 - 8742 Mag Flow Transmitter
 - 8800C Vortex Transmitter
 - 5600 and 5400 Radar Level Transmitter
 - 752 Fieldbus Indicator
 - 3420 Fieldbus Interface Module

Note: Course may be conducted using other Fieldbus Hosts, such as DeltaV and National Instruments, call with any questions.

Price \$2,000

Location Eden Prairie, MN **Start Date 2012** 4/18, 12/5

Fieldbus Devices

Course 7030 CEUs: 2.8

This course is for individuals responsible for maintaining, troubleshooting, calibrating and modifying FOUNDATION™ fieldbus device parameters.

Overview

This 4-day lecture/lab course provides maximum hands-on experience working with FOUNDATION™ fieldbus instruments such as: the FIELDVUE® Digital Valve Controller, Rosemount Pressure and Temperature Transmitters. The student will use the DeltaV control system to commission fieldbus devices, assign foundation fieldbus function blocks to field devices, troubleshoot using diagnostics and AMS Device Manager to manipulate device parameters.

Prerequisites

There are no prerequisites for this course; however, a general understanding of process control including control valves, transmitters, control terms, and control loop basics is recommended. Computer skills should include a basic working knowledge of Windows.

The 375 Field Communicator and AMS ValveLink for Fieldbus will be demonstrated and available for students as optional activities.

Topics

- DeltaV Scaleable System Overview
- Macro Cycle Execution
- Fieldbus Function Blocks
- FieldVue Theory of Operation
- Transmitter Theory of Operation
- AMS Device Manager Methods
- Fieldbus Wiring Practices
- System Troubleshooting
- Accessing Fieldbus Devices
- Alarms and PlantWeb Alerts at DeltaV Workstations
- Segment Checkout Procedures
- Replace Wizard

Price \$2,800

Location Austin, TX **Start Date 2012** 6/25

To enroll in Plant Optimization courses please call 800-338-8158 or 641-754-3771. For additional contact information refer to the appropriate contact on page 107. Updated dates & locations are available on our website at www.emersonprocess.com/education.

FOUNDATION™ fieldbus

Fieldbus Systems and Devices

Course 7032 CEUs: 2.8

This course is for individuals responsible for installing, troubleshooting, calibrating and configuring FOUNDATION™ fieldbus instruments and control strategies using the DeltaV™ scaleable systems.

Overview

This 4-day lecture/lab provides maximum hands-on experience working with the integration of FOUNDATION™ fieldbus devices and the DeltaV scaleable system. The student will be able to install fieldbus instruments and segment checkout for the correct operation of the physical layer. The student will be able to use the DeltaV system to perform AMS Device Manger methods such as calibration, setup wizards, zero trim and diagnostics. The student will be able to implement a pressure loop using FOUNDATION™ fieldbus function blocks with the DeltaV Control Studio application. The student will configure PlantWeb Alerts and device alarm parameters.

Prerequisites

Course 7009 or Course 7018.

The 375 Field Communicator and ValveLink for Fieldbus will be demonstrated and available for students as optional activities.

Topics

- FOUNDATION™ fieldbus Overview
- Macro Cycle Execution
- Fieldbus Function Blocks
- Control Strategy Configuration
- Control Anywhere
- FieldVue Theory of Operation
- Transmitter Theory of Operation
- AMS Device Manager Methods
- Fieldbus Wiring Practices
- System Troubleshooting
- Configuring Fieldbus Device
- Alarms and PlantWeb Alerts
- Configuring a Fieldbus Operator Display
- Segment Checkout Procedures

Price \$2,800

Location	Start Date 2012
Austin, TX	4/23, 10/8
Edmonton, AB	3/5, 6/11, 9/24, 11/19

Practical Implementation of FOUNDATION™ fieldbus

Course 7035 CEUs: 1.4

This course is for individuals responsible for evaluating FOUNDATION™ fieldbus technology for process automation projects.

Overview

This 2-day course covers the practical implementation issues with FOUNDATION™ fieldbus faced by design and project engineers familiar with 4-20mA DCS installations. Upon completion of the course the student will understand the basics of fieldbus technology and be aware of areas that will change during project execution. The student will be able to design H1 fieldbus segments, specify equipment, comply with hazardous area requirements, modify current engineering practices, troubleshoot installations and estimate installed benefits for a project using FOUNDATION™ fieldbus. The course content is not vendor specific though DeltaV and Emerson Process Management field devices are used for examples and demonstration purposes.

Prerequisites

Background in instrumentation & electrical engineering, control systems engineering, or project engineering.

Topics

- Introduction to FOUNDATION™ fieldbus Technology
- Design of H1 Fieldbus Segments
- Hazardous Area Applications
- Project Engineering Practices Using FOUNDATION™ fieldbus
- Economic Benefits Compared to Traditional 4-20mA DCS Technology

Price \$1,450

Location	Start Date 2012
Call to Schedule	



FOUNDATION™ fieldbus FIELDVUE Digital Valve Controller

Course 7036 CEUs: 2.1

This 3-day course is designed to teach technicians and engineers the basics of FOUNDATION™ fieldbus digital valve controller installation, configuration, calibration, and troubleshooting using 375/475 Handheld, ValveLink™ software and DeltaV, and AMS Intelligent Device Manager.

Overview

The course begins with a review of the role and function of control valve positioners and proceeds through a series of hands-on exercises that require the student to disassemble, inspect, assemble, install, and commission a fieldbus digital valve controller. During commissioning, students will learn the basics of the FOUNDATION™ fieldbus protocol, the role of function blocks, addressing, modes and status. Students will configure, calibrate, and commission devices using both 375/475 Handheld, ValveLink™ software and DeltaV. Hands-on exercises also teach students how to perform detailed setup routines and how to run and collect data for various ValveLink™ diagnostics. The class ends with a troubleshooting session that presents common problems and their solutions.

Prerequisites None, though a basic familiarity with positioners - preferably digital valve controllers - and control valve basics will be most useful.

Topics

- Positioner Basics
- FOUNDATION™ fieldbus Overview
- Digital Valve Controller Installation and Mounting
- Modes and Status
- Configuration/Calibration with DeltaV™
- Configuration and Calibration with the 375/475 Field Communicator
- Intro. to AMS ValveLink Fieldbus Functionality
- ValveLink™ Setup Wizard/Detailed Setup
- Tuning
- Tag Management
- Pressure Control
- ValveLink™ Diagnostics
- FIELDVUE Instrument Troubleshooting
- (Optional) Configuration/Calibration with NI Tools

Price \$2,000

Location	Start Date 2012
Marshalltown, IA	4/10, 7/31, 10/2

