

4500 Machinery Health Monitor Course 2088

May 18–21, 2010 (Pittsburgh, PA)



\$1,975.00

This 4-day course is for plant personnel with no vibration analysis experience as well as experienced analysts who need 4500 system knowledge. This course best suits plants that have a 4500 system installed and operational prior to attending the course. This course teaches 4500 system operators, personnel using the system daily to monitor equipment, and analysts responsible for configuring the system. Students will: understand vibration basics and terminology as it relates to the 4500 Monitor Online, learn the basics of the functionality and components of the system, learn to use Online Watch- a program used daily by operations personnel to monitor the system, learn Online Config - how to add a new machine to an existing database/aspects of getting to the point of data collection and learn AMS Machinery Manager programs to view data, diagnose equipment problems, fine-tune the database, and manage the data. (2.8 CEU's)

AMS Device Manager Course 7020

December 15–18, 2009 (Pittsburgh, PA)



\$1,900.00

March 30 – April 1, 2010 (Solon, OH)

April 27–29, 2010 (Pittsburgh, PA)

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. Topics to include: Configuring and Using AMS Device Manager: Viewing and Modifying Devices, Creating a Plant Database Hierarchy and Adding Devices, Using the 375 Field Communicator with AMS Device Manager, Using the AMS Device Manager Browser Functions, Audit Trail, Calibrating Device - Calibration Assistant, Configuring and Monitoring System Alerts, System Administration: AMS Device Manager System Overview, Installing an AMS Device Manager Server Plus Standalone, Starting AMS Device Manager for the First Time, Network Communication Interface Setup, AMS Device Manager Database Management, Installing a Distributed System, Installing Device Types from Media, SNAP-ON™ Applications: AMS ValveLink® SNAP-ON Application, Engineering Assistant SNAP-ON Application, Plugged Line Diagnostic™ SNAP-ON Application, Root Cause Diagnostic™ SNAP-ON Application, SNAP-ON Application, QuickCheck™ SNAP-ON Application, Using AMS Device Manager OPC Server and the Matrikon OPC Explorer, AMS Device Manager Web Client, AMS Device Manager Web Services, AMS Suite: Asset Portal™

NEW AMS Device Manager with Rosemount HART Instruments Course 7021

August 17–19, 2010 (Pittsburgh, PA)



\$1,900.00

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, and Perform basic troubleshooting on transmitters. (2.1 CEU's)



Locations: Charleston, WV • Dublin • Lima • Monessen • Pittsburgh • Solon • Your Site

NEW Asset Optimization for the Boiler Industry

June 23, 2010 (Solon, OH)

No Charge

This class will focus on improving Boiler reliability and efficiency. The class will discuss how to utilize a structured approach to facilitate a more predictive maintenance environment which will lead to improved reliability. We will also examine how to use technology to monitor and improve boiler efficiency. We will discuss the economic impact of this method and the process needed to make the change and sustain the change. (0.6 CEU's)

Control Valve and Instrument Technician Course 1405

December 8–10, 2009 (Solon, OH)



\$1,900.00

January 5–7, 2010 (Monessen, PA)

January 26–28, 2010 (Lima, OH)

February 9–11, 2010 (Dublin, OH)

May 12–14, 2010 (Monessen, PA)

July 20–22, 2010 (Lima, OH)

This 3-day Fisher Controls course is for instrument or valve technicians responsible for control valve, actuator, positioner and controller installation, calibration and maintenance. This course explains how valves and actuators function and how they are installed and calibrated. Hands-on training teaches installation, troubleshooting, parts replacement and calibration of control valves, actuators, positioners, pneumatic controllers, and pneumatic level transmitters. Those who complete this will be able to correctly perform installation procedures, perform basic troubleshooting, properly apply and calibrate positioners, change valve trim, gaskets and packing, and perform basic controller tuning. Topics include: actuators and positioners, ball valves, bench set, butterfly valves, eccentric disc valves, globe valves, packing, pressure controllers, special service valves, valve characteristics, current to pneumatic (I/P) transducers, controller tuning/calibrations and leveltrol calibration (2.1 CEU's)

Control Valve and Regulator Applications, Sizing and Selection

November 3, 2009 (Pittsburgh, PA)

No Charge

November 18, 2009 (Solon, OH)

January 13, 2010 (Pittsburgh, PA)

March 2, 2010 (Solon, OH)

This one day session will be divided into two half-day sessions. The first half-day will include a review of the different styles of control valve architecture and how they are best applied in process applications. The process engineer has many choices when it comes to control valve styles. Which is the best control valve for a particular application? The discussion will include a review of ball valves, butterfly valves, sliding stem valves, plug valves, and several other valve styles. The second half of the day will be a similar discussion focused on regulator styles. The discussion will include a review of self-operated vs. pilot operated, over pressure protection, series regulation, monitors, slam shut options, and relief valves. Come to this session and learn how to select the best valve or regulator for your process application. (0.6 CEU's)

Control Valve Engineering I Course 1301

January 19–21, 2010 (Pittsburgh, PA)



\$2,100.00

February 23–25, 2010 (Solon, OH)

June 22–24, 2010 (Dublin, OH)

This 3-day course explains how to select the correct control valve, actuator and accessories to operate through the full range of process conditions. This course covers general applications and emphasizes the sizing and selection methods for a broad variety of control valves and actuators. Students will solve various sizing and selection problems using publishing materials and Firstvue software, plus participate in equipment demonstrations and workshops. Students who complete this course will: select the proper valve characteristics for a given process, choose suitable styles of control valves for an application, size control valves and actuators, select the best actuator for all applications and properly apply positioners (3.2 CEU's)

Control Valve Maintenance and Repair Overview

February 9, 2010 (Monessen, PA)

\$300.00

This one day session explains how valves and actuators function and how they are installed and calibrated. It emphasizes installation, troubleshooting, parts replacement and calibration of control valves, actuators and positioners. Those who complete this course will be able to understand what is involved with being able to correctly perform installation procedures, perform basic troubleshooting, properly apply and calibrate positioners, change valve trim, gaskets and packing and properly perform valve lapping. This is one of our most popular on site classes. (0.6 CEU's)

NEW Control Valve Maintenance with DVC's Course 1456

March 2–5, 2010 (Pittsburgh, PA)



\$2,000.00

This 4-day course will cover sliding stem and rotary valves and actuators. The first 2 days will include Topics about valve and actuator setup, maintenance, repair and troubleshooting. The following 2 days will be focused on the installation, calibration of the DVC 6000 series digital valve controller (DVC), using the 375 handheld communicator and an overview of AMS ValveLink Software. Students will spend 60% of the time in hands-on workshops. Students who complete this course will be able to: correctly perform installation procedures, perform basic troubleshooting, change valve trim gasket, and packing, install and mount a digital valve controller onto a sliding stem and rotary valve and configure and calibrate FieldVue instruments with the Hart 375 Communicator. (3.2 CEU's)

Control Valve Technician I Course 1400

March 23–26, 2010 (Pittsburgh, PA)



\$2,000.00

This 4-day course explains how valves and actuators function and how they are installed and calibrated. Topics of discussion will include installation, troubleshooting, parts replacement, and calibration of control valves, actuators, and positioners. Students spend 50% of their time in hands-on workshops. Those who complete this course will be able to correctly perform installation procedures, perform basic troubleshooting, properly apply and calibrate positioners, change valve trim, gaskets and packing and properly perform valve lapping. (3.2 CEU's)



2010 EDUCATION PROGRAM



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NEW DeltaV Advanced Control Course 7201

February 22–26, 2010 (Pittsburgh, PA)



\$3,195.00

April 26–30, 2010 (Solon, OH)

This 4½ day course introduces students to the advanced control tools available within DeltaV and how they may be used to improve plant operations. The principal technology that is utilized in each product will be discussed. The areas of improvement that may be achieved will be detailed. Also, each student will gain hands on experience with these tools in class exercises based on realistic process simulations. Topics include: The Control Foundation in DeltaV (Traditional tools e.g. override, cascade, ratio & Improvements provided by advanced control), DeltaV Inspect (Detection of Abnormal Conditions & Variability index, utilization), DeltaV Tune (Tuning response, robustness & Expert options e.g. Lambda, IMC), DeltaV Fuzzy (Principals of logic control & FLC function block, Tuning), DeltaV Neural (Creation of virtual sensor & Data screening, training), DeltaV Predict (MPC for multi-variable control, Model identification, data screening & Simulation of response, tuning), DeltaV Simulate (Operator training and engineering & Using High fidelity process simulation) (3.2 CEU's)

DeltaV Advanced Graphics Course 7025

March 15–19, 2010 (Pittsburgh, PA)



\$3,195.00

July 12–16, 2010 (Solon, OH)

This 4½-day course is for process control engineers responsible for configuring advanced functionality in the DeltaV user interface. This course expands on graphic topics covered in both the DeltaV Implementation I, course 7009 and DeltaV Implementation II, course 7017. (3.2 CEU's)

DeltaV Hardware and Troubleshooting Course 7018

April 12–15, 2010 (Pittsburgh, PA)



\$3,195.00

May 24–27, 2010 (Solon, OH)

September 13–16, 2010 (Pittsburgh, PA)

November 16–19, 2009 (Pittsburgh, PA)

This 4-day course is for those responsible for hardware and troubleshooting the DeltaV Control Network, Controllers, I/O subsystem and Workstation interface. This course is recommended for configuration engineers prior to configuration classes. This course covers the hardware components that make up the DeltaV system. With a combination of lecture and workshops the student will assemble the system, power up the Controller, I/O subsystem and workstation. The student will learn how to use the diagnostic tools available to verify any fault conditions that are hardware related. Students will also be introduced to configuration tools and the operator interface. (2.8 CEU's)

DeltaV Implementation I Course 7009

December 7–11, 2009 (Pittsburgh, PA)



\$3,195.00

January 11–15, 2010 (Solon, OH)

May 3–7, 2010 (Pittsburgh, PA)

This 4½-day course covers a complete DeltaV system implementation. Upon completion of the course, the student will be able to define system capabilities, define nodes, configure continuous and sequential control strategies, operate the system and define users and security. Topics covered will be Control Modules, Control Studio, Motor Control, Regulatory Control, Graphic Studio, System Operation, Alarms and Process History View, Sequential Function Charts, Phase Logic and Security. (3.2 CEU's)

DeltaV Implementation II Course 7017

January 25–29, 2010 (Pittsburgh, PA)



\$3,195.00

February 8–12, 2010 (Solon, OH)

June 14–18, 2010 (Pittsburgh, PA)

This 4½-day course is for process control engineers responsible for configuring the DeltaV system. Advanced topics will be covered including display scripting, function blocks, and configuration tips. Additional topics will be Hart inputs and outputs, DeltaV Tune, Fuzzy Logic, Inspect, Bulk Edit, Unit Alarms, Display Scripting (VB), Custom Faceplates and Custom Dynamos. (3.2 CEU's)

DeltaV Overview

November 4, 2009 (Pittsburgh, PA)

No Charge

November 5, 2009 (Pittsburgh, PA)

This one day session is geared toward process engineers, control engineers and managers who would like to have overview of the DeltaV scalable process control system. The class will review the techniques used for the operator interface and configuration with DeltaV. It will also review how DeltaV uses bus technologies (Fieldbus/ Asi bus, etc), embedded advanced control, field device diagnostics and Asset Management Software to help manufacturers improve the way the process can be controlled. This class can help users understand what an advanced process control system is capable of providing and how to best apply within their facilities. Students will be able to perform basic workstation operations including accessing displays, interpreting faceplates and accessing modules to make process changes. Students will also understand how to respond to alarms and observe/change tunable configuration parameters. (0.6 CEU's)

DeltaV Systems Batch Implementation Course 7016

March 8–12, 2010 (Solon, OH)



\$3,195.00

This 4½ day course is designed for individuals responsible for configuring and commissioning DeltaV Batch software. This course covers the implementation of a complete batch application. A process simulator will provide a batch application. Students will use DeltaV Batch software to configure recipe entities including, Aliasing, Phase Logic, Operations & Unit Procedures. Equipment entities will also be configured including, Unit modules and Process cells. Topics include: Batch Overview, Unit Phase, Alias Definition, Unit Module, Process Cell, Operation, Unit Procedure, Procedure, Batch Historian, Version Control & Campaign Manager (3.2 CEU's)



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Fisher Smart Instrumentation with AMS Course 7022

May 11–13, 2010 (Pittsburgh, PA)



\$1,900.00

This 3-day course is designed to teach technicians and engineers how to commission, calibrate, configure, maintain, and troubleshoot Fisher smart devices using AMS and the ValveLink SNAP-ON. The course begins with an introduction to the features and functionality of the AMS software. It proceeds to discuss important database design and management issues, and then delves into device-specific techniques for commissioning, maintaining, and troubleshooting the following Fisher smart devices: DVC5000, DVC6000 and DLC3000. (2.1 CEU's)

FloBoss Engineering I Course 1220

April 19-23, 2010 (Pittsburgh, PA)



\$1,950.00

This Fisher Controls course is for field technicians and others who configure FloBoss to perform AGA flow calculations. This 4½-day course teaches the student how to configure the FloBoss 100, 400, 500 series products for Electronic Flow Measurement (EFM). Included is a review of hardware and software as they apply to flow measurement. The course layout emphasizes hands-on configuration and set-ups using case histories to underscore the economic impact of configuration errors and oversights. Students who complete this course will be able to configure the FloBoss products. Topics Include: FloBoss Hardware Review, Flow Measurement Review (Overview on MVS Product & Set up Multi-dropping on MVS), FloBoss Configuration, Basic Use of Database Configuration, AGA Report Generation, ROCLINK Configuration Software and Basic FST use (3.2 CEU's)

NEW Gas Regulator Technician Course 1101

September 21–23, 2010 (Solon, OH)



\$1,600.00

This 3-day course is designed primarily for technicians responsible for the installation and maintenance of regulators and relief valves. Emphasizing hands-on training, this course teaches students to install, troubleshoot, and adjust gas regulators and relief valves. Students who complete this course will be able to: perform maintenance on regulators and relief valves & troubleshoot field problems. Topics include: Self-Operated Regulators, Pilot-Operated Regulators, Overpressure Protection (Series Regulation, Monitors, Slam Shut Options & Relief Valves), Regulator Failure Analysis, Troubleshooting. Prerequisites: At least one year field experience with gas regulators is recommended. (2.1 CEU's)

Instrument Maintenance and Repair Overview

February 10, 2010 (Monessen, PA)

\$300.00

This one day course is designed for technicians and service people responsible for installing, calibrating, repairing and troubleshooting pneumatic and electronic instruments. Students will spend the majority of time in hands-on workshops. They will disassemble, reassemble and calibrate many of the instruments they would encounter on the job. Upon completion of course, students will have a basic understanding of rebuilding, calibrating, troubleshooting and repairing instruments. This is one of our most popular on site classes.

NEW Loop Tuning & Problem Solving Course 9001

August 9–13, 2010 (Pittsburgh, PA)



\$1,900.00

This 4½ day course explains the basics of process control and loop dynamics. Those attending participate in hands-on workshops performing controller tuning on level, pressure, flow, and temperature loops using digital and pneumatic controllers. Computer process simulators to reinforce and practice classroom concepts. Those completing this course will: Implement common control strategies, Troubleshoot unstable loops, and Tune pneumatic, analog, & digital controllers (3.2 CEU's)

NEW OPC Course 1 & 2

October 13–14, 2009 (Pittsburgh, PA)

\$1,695.00

May 11–12, 2010 (Solon, OH)

This 2 day vendor Neutral Hands-on OPC Workshop provides the fundamentals of OPC to reduce project risk, reduce implementation time, and design and implement effective OPC architectures. OPC is used in a variety of projects including DCS migration, and console replacement. MatrikonOPC is the only vendor whose trainers have extensive onsite experience; bringing this experience into the classroom enables students to learn real world solutions, to real world problems. Highlights covered in the OPC Training Workshop are: Understand OPC specifications including OPC DA, A&E and HDA, Setup and configure Windows DCOM security, Diagnose connectivity issues and solve DCOM problems, Pass data through firewalls while complying with network security policies, Avoid common pitfalls through OPC best practices, and Learn advanced OPC architectures and solve complex problems easily.

Process Control Fundamentals I

November 23, 2009 (Pittsburgh, PA)

\$300.00

February 16, 2010 (Lima, OH)

June 1, 2010 (Dublin, OH)

This one-day session will focus on discussions about the basic fundamentals of process controls. The class is oriented toward people that are new to the process control industry. The session will discuss concepts of how measurement devices, process controllers, regulators and final control valves all work together to perform basic closed loop control in industrial plants. The attendees will gain an appreciation for the different technologies that exist for the measurements, control action such as PID and final control valves and actuators. Examples of typical process control applications will be reviewed with the class. These applications will show how valves, transmitters and basic control strategies are used to achieve good control of the process. (0.6 CEU's)

Process Control Fundamentals II

November 24, 2009 (Pittsburgh, PA)

\$300.00

February 17, 2010 (Lima, OH)

June 2, 2010 (Dublin, OH)

This one-day session provides a more in-depth look at process control theory. Directed at people who have completed the Process Control Theory I or who already have been exposed to the fundamentals of process control theory, the session will look at the details of topics that are important to the proper design, implementation, and maintenance of process control loops. The session will address these topics in more depth, including considerations in the selection of hardware, documentation, process dynamics, loop tuning, and digital control. (0.6 CEU's)



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Safety Engineering Overview Course 2730

August 4–5, 2010 (Solon, OH)



\$1,250.00

This is a 2 day course. Manufacturers are challenged with maintaining their plants to last longer, improving their efficiency while at the same time adhering to the latest Federal standards for good Safety practices. These Federal safety standards would include conducting Process Hazards Analysis, Risk Analysis, SIL and SIS determination and Safety Life Cycle management. There are also new technologies available in field devices and control systems that can have a significant impact with helping manufacturers comply with standards such as OSHA ,IEC61508, IEC61511, and S84 for process safety. Consultants from Emerson Process Management will conduct a 2-day seminar to provide a overview of Safety Engineering as it relates to the latest Federal Standards and Industry practices for OSHA compliance. The seminar will cover the entire safety lifecycle including such topics as Risk Analysis, LOPA, SIL Selection, SIS design, SIS Equipment and Architecture, SIF Verification, Operation and Maintenance. Attendees will have a much greater appreciation for what the latest Federal standards mean to local plants (SIL levels, SIS, New OSHA and ISA standards) and more importantly, how the recent technologies for automation equipment can be utilized to help accomplish plant safety goals. (1.4 CEU's)

Steam Seminar

September 22, 2010 (Solon, OH)

No Charge

This one-day course is a practical introduction to steam systems and how, when effectively managed, they can yield the lowest cost of ownership while providing optimum system performance. There is an explanation of the parts of a standard industrial steam system and a brief overview of the select pieces of steam specialty equipment. Included as well will be a discussion of how to maximize the effective use of steam to increase production, extend reliability and lower energy costs. Control Valve and Regulator selection and sizing and how it relates to the efficiency of the Steam System will be explored. (0.6 CEU's)

NEW ValveLink & Diagnostics for FIELDVUE – Operations Course 1752

April 6–8, 2010 (Solon, OH)

April 20–22, 2010 (Lima, OH)



\$1,300.00

This 2½ day course is for technicians, engineers and others responsible for installation, calibration and diagnostics for FIELDVUE and related instrument and software. The primary focus of this course is to provide a comprehensive experience in managing DVC's using the AMS ValveLink software. Lecture/lab style course provides maximum class time with hands-on experience working with FIELDVUE instrumentation and AMS ValveLink Diagnostic Software. Students will be able to execute ValveLink Diagnostic routines and create an instrument database. HART multiplexer technology will also be explored. This is a continuation course for course 1751, Fundamentals of FIELDVUE Digital Instruments and the 275/375 Handheld Communicator. (1.8 CEU's)

For additional information please contact

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DATE	COURSE
October 13–14, 2009	NEW OPC Courses 1 & 2 (Pittsburgh, PA)
November 3, 2009	Control Valve and Regulator Applications, Sizing and Selection (Pittsburgh, PA)
November 4, 2009	DeltaV Overview (Pittsburgh, PA)
November 5, 2009	DeltaV Overview (Pittsburgh, PA)
November 16–19, 2009	DeltaV Hardware and Troubleshooting Course 7018 (Pittsburgh, PA)
November 18, 2009	Control Valve and Regulator Applications, Sizing and Selection (Solon, OH)
November 23, 2009	Process Control Fundamentals I (Pittsburgh, PA)
November 24, 2009	Process Control Fundamentals II (Pittsburgh, PA)
December 7–11, 2009	DeltaV Implementation I Course 7009 (Pittsburgh, PA)
December 8–10, 2009	Control Valve and Instrument Technician Course 1405 (Solon, OH)
December 15–18, 2009	AMS Device Manager Course 7020 (Pittsburgh, PA)
January 5–7, 2010	Control Valve and Instrument Technician Course 1405 (Monessen, PA)
January 11–15, 2010	DeltaV Implementation I Course 7009 (Solon, OH)
January 13, 2010	Control Valve and Regulator Applications, Sizing and Selection (Pittsburgh, PA)
January 19–21, 2010	Control Valve Engineering I Course 1301 (Pittsburgh, PA)
January 25–29, 2010	DeltaV Implementation II Course 7017 (Pittsburgh, PA)
January 26–28, 2010	Control Valve and Instrument Technician Course 1405 (Lima, OH)
February 8–12, 2010	DeltaV Implementation II Course 7017 (Solon, OH)
February 9, 2010	Control Valve Maintenance and Repair Overview (Monessen, PA)
February 9–11, 2010	Control Valve and Instrument Technician Course 1405 (Dublin, OH)
February 10, 2010	Instrument Maintenance and Repair Overview (Monessen, PA)
February 16, 2010	Process Control Fundamentals I (Lima, OH)
February 17, 2010	Process Control Fundamentals II (Lima, OH)
February 22–26, 2010	NEW DeltaV Advanced Control Course 7201 (Pittsburgh, PA)
February 23–25, 2010	Control Valve Engineering I Course 1301 (Solon, OH)
March 2, 2010	Control Valve and Regulator Applications, Sizing and Selection (Solon, OH)
March 2–5, 2010	NEW Control Valve Maintenance with DVC's Course 1456 (Pittsburgh, PA)
March 8–12, 2010	DeltaV Systems Batch Implementation Course 7016 (Solon, OH)
March 15–19, 2010	DeltaV Advanced Graphics Course 7025 (Pittsburgh, PA)
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April 27–29, 2010	AMS Device Manager Course 7020 (Pittsburgh, PA)
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May 11–12, 2010	NEW OPC Courses 1 & 2 (Solon, OH)
May 11–13, 2010	Fisher Smart Instrumentation with AMS Course 7022 (Pittsburgh, PA)
May 12–14, 2010	Control Valve and Instrument Technician Course 1405 (Monessen, PA)
May 18–21, 2010	4500 Machinery Health Monitor Course 2088 (Pittsburgh, PA)
May 24–27, 2010	DeltaV Hardware and Troubleshooting Course 7018 (Solon, PA)
June 1, 2010	Process Control Fundamentals I (Dublin, OH)
June 2, 2010	Process Control Fundamentals II (Dublin, OH)
June 14–18, 2010	DeltaV Implementation II Course 7017 (Pittsburgh, PA)
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September 22, 2010	Steam Seminar (Solon, OH)