



## EDUCATIONAL COURSES FOR 2012

<p><b><u>Regulator Technician, Course 1100</u></b>            This course is intended for technicians responsible for the installation and maintenance of regulators and relief valves. Emphasizing hands-on training, it teaches students to install, trouble-shoot, and adjust gas regulators and relief valves.</p>	<p><b>April 24 - 26</b></p>
<p><b><u>Valve Engineering, Course 1300</u></b>            This course is for engineers, technicians and others responsible for the selection, sizing, and application of control valves, actuators and control valve instrumentation.</p>	<p><b>August 14 - 17</b></p>
<p><b><u>Valve Technician, Course 1400</u></b>            An explanation of how valves and actuators function as well as how they are installed and calibrated. Geared toward instrument technicians responsible for pneumatic and electronic instrument calibration, installation &amp; troubleshooting.</p>	<p><b>May 8 – 11</b>   <b>September 11 – 14</b></p>
<p><b><u>FlowScanner Data Acquisition and Interpretation, Course 1427</u></b>            Course teaches proper setup of hardware and software, accurate entry of data, and other procedures that are required to ensure accuracy when acquiring data when using a FlowScanner.</p>	<p><b>July 10 -13</b></p>
<p><b><u>ValveLink and Diagnostics for FIELDVUE DVC, Course 1752/1759</u></b>            This course will teach how to interpret and analyze diagnostic data obtained using FIELDVUE Digital Valve Controllers and ValveLink software.</p>	<p><b>February 21-24</b></p>
<p><b><u>Introduction to AMS Machinery Manager, Course 2068</u></b>            Students learn methods of database creation and vital features of route creation such as collecting reference data, analyzer/computer communication, and the basic concepts of Analysis Parameter.</p>	<p><b>June 19 – 22</b></p>
<p><b><u>Intermediate AMS Machinery Manager, Course 2074</u></b>            Students expand their knowledge of machinery analysis techniques, focusing on analysis and reporting.</p>	<p><b>September 18 - 21</b></p>
<p><b><u>DeltaV Implementation II, Course 7017</u></b>            For process control engineers responsible for configuring the DeltaV system. Advanced topics will be covered including displays, function blocks, and configuration tips.</p>	<p><b>August 20 - 24</b></p>
<p><b><u>DeltaV Hardware &amp; Troubleshooting, Course 7018</u></b>            Course material covers the hardware components that make up the DeltaV system. The student will assemble the system, power up the controller, I/O subsystem and workstation. Learn to use the diagnostic tools available to verify fault conditions related to hardware. Introduces configuration tools and operator interface.</p>	<p><b>June 12 - 15</b></p>
<p><b><u>Communication Bus Interface with DeltaV System, Course 7037</u></b>            Covers interfacing with DeviceNet, AS-I, Profibus SP HART and serial communication busses to a DeltaV scalable system.</p>	<p><b>April 24 – 26</b></p>
<p><b><u>AMS Device Manager, Course 7038</u></b>            A lab/lecture course for individuals who use AMS Device Manager integrated with the DeltaV system to calibrate, commission, and configure HART and FOUNDATION fieldbus devices. The training exercises are based on real world tasks.</p>	<p><b>April 17 - 20</b></p>
<p><b><u>Introduction to Process Control, Course 9000</u></b>            Basic, overall fluid process controls knowledge needed to better understand the interrelationships associated with automated control loops.</p>	<p><b>August 14 - 17</b></p>
<p><b><u>Applied Modern Loop Tuning, Course 9032</u></b>            Introduces participants to control loop troubleshooting and controller tuning. The non-oscillatory EnTech tuning techniques are based on Lambda concepts and taught with a focus on minimizing process variability. Learn how to recognize acceptable/unacceptable control loop performance and to identify the most common source of problems</p>	<p><b>July 24 - 26</b></p>
<p><b><u>Steam Boiler Operator Training, Course CDI 410</u></b>            Provides information on virtually all facets of steam boiler operation, maintenance, and troubleshooting. Common boiler auxiliaries and operating techniques are covered in detail. Safety and efficiency of operation are stressed. Licensing/Certification available.</p>	<p><b>March 5 – 9</b>   <b>(Advanced Class)</b>  <b>May 21 - 25</b></p>
<p><b><u>Alarm Rationalization – Course CDI 610</u></b>            A proven alarm management technique and one of the stages of ISA-18.2's alarm management lifecycle. Rationalization is a multi-disciplinary process for ensuring that each alarm is justified and meets the criteria for being an alarm. It also involves defining the alarm's attributes and documenting the cause, consequence, and corrective action all in a Master Alarm Database.</p>	<p><b>February 8 - 9</b></p>



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**To Be Scheduled Courses. To enroll or questions call/email.**

<p><b><u>Advanced FlowScanner Diagnostic Interpretation, Course 1428</u></b>          This course is for personnel who are responsible for interpreting plots and other diagnostic data that is acquired with the Fisher FlowScanner. This course focuses on data interpretation.</p>	<p><b>3 Days</b></p>
<p><b><u>Valve Maintenance &amp; DVC Calibration, Course 1451</u></b>          Material covers sliding stem and rotary valves and actuators. Topics include valve and actuator setup, maintenance, repair and troubleshooting; installation and calibration of the 2000 and 6000 series digital valve controllers using the 375 handheld communicator. 50% hands-on workshops.</p>	<p><b>4 Days</b></p>
<p><b><u>Mystery PeakVue and Autocorrelation, Course 2035/2075</u></b>          Provides insight into advanced functionality of Emerson's patented PeakVue technology and Autocorrelation. Machine vibrations generate stress waves. The properties of these stress waves will be explained.</p>	<p><b>3 Days</b></p>
<p><b><u>Power and Grounding for Electric Systems, Course 5590</u></b>          Provides essential knowledge regarding the power and grounding system for DeltaV equipment.</p>	<p><b>2 Days</b></p>
<p><b><u>DeltaV Operate Implementation I, Course 7009</u></b>          Covers a complete DeltaV system implementation. Upon completion of this course the student will be able to define system capabilities, assemble the system, define nodes, run diagnostics, configure continuous and sequential control strategies, operate the system and define users and security.</p>	<p><b>4 ½ Days</b></p>
<p><b><u>Simulation with Mimic, Course 7041</u></b>          For individuals who specify, configure and test configurations of DeltaV. It provides the working knowledge of mimic to effectively operate and test their configuration in a simulated environment prior to system start-up.</p>	<p><b>3 ½ Days</b></p>
<p><b><u>EnTech- Boiler &amp; Powerhouse Applications &amp; Problem Solving, Course 8106</u></b>          For technicians, engineers or others who have responsibility for troubleshooting and optimization of the powerhouse area including boilers, steam headers, and turbines with the goal of achieving reliable load response, efficient operations, and low emissions.</p>	<p><b>3 Days</b></p>
<p><b><u>Control Loop Foundation, Course 9025</u></b>          Course covers the concepts and terminology that are needed to understand and work with control systems. Upon completion of this course the student should be able to effectively work with and commission single and multi-loop control strategies. Interactive workshops allow the student to apply what they learn in class.</p>	<p><b>5 Days</b></p>

Prerequisites may apply to certain courses



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