



CDI User's Exchange
May 10-11

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EDUCATIONAL COURSES FOR 2010

<p><u>Regulator Technician, Course 1101</u> 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>April 20 - 22</p>
<p><u>Valve Engineering, Course 1304</u> 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>October 19 - 22</p>
<p><u>Valve Technician, Course 1404</u> 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 & troubleshooting.</p>	<p>March 16 - 19 September 14 - 17</p>
<p><u>AMS Device Manager, Course 7020</u> Completing 3 days of AMS Device Manager hands-on instructor assisted training modules and exercise, 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 would encounter on the job.</p>	<p>May 4 - 6</p>
<p><u>DeltaV Operate Implementation I, Course 7009</u> 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>April 26 - 30 September 20 - 24</p>
<p><u>DeltaV Implementation II, Course 7017</u> For process control engineers responsible for configuring the DeltaV system. Advanced topics will be covered including display scripting, function blocks, and configuration tips.</p>	<p>December 6 - 10</p>
<p><u>DeltaV Hardware & Troubleshooting, Course 7018</u> 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>May 3 - 6</p>
<p><u>Fieldbus Systems and Devices – Course 7032</u> Covers installing, troubleshooting, calibrating and configuring Foundation Fieldbus instruments and control strategies using the DeltaV scaleable systems.</p>	<p>June 21 - 25</p>
<p><u>Communication Bus Interface with DeltaV System – Course 7037</u> Covers interfacing with DeviceNet, AS-I, Profibus SP HART and serial communication busses to a DeltaV scalable system.</p>	<p>August 17 - 19</p>
<p><u>Introduction to Process Control, Course 9007</u> Basic, overall fluid process controls knowledge needed to better understand the interrelationships associated with automated control loops.</p>	<p>June 15 – 18</p>
<p><u>EnTech Modern Loop Tuning, Course 9032</u> 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>August 24 - 26</p>
<p><u>OPC Hands-On Training – Course CDI 310</u> OPC Level 1 – Pragmatic OPC Integration and Level 2 – OPC Diagnostics and Optimization This 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.</p>	<p>March 9 - 10</p>
<p><u>Steam Boiler Operator Training, Course CDI 410</u> 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>April 12 – 16 October 25 - 29</p>

Tentative courses for 2010. Please call/email for details.



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To Be Scheduled

<p><u>Advanced FlowScanner Diagnostic Interpretation, Course 1428</u> 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>3 Days</p>
<p><u>Valve Maintenance & DVC Calibration, Course 1456</u> 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</p>	<p>4 Days</p>
<p><u>Instrument Technician – Course 1714</u> Covers the principles of operation, calibration and installation procedures for electronic and pneumatic instruments. Computer process simulations and live loops are used to demonstrate loop dynamics.</p>	<p>4 Days</p>
<p><u>ValveLink & Diagnostics for Fieldvue Data Interpretation, Course 1760</u> Lectures and hands on workshops to teach the student to interpret and analyze diagnostic data obtained using FIELDVUE Digital Valve Controllers and AMS ValveLink software.</p>	<p>2 Days</p>
<p><u>DeltaV Systems Batch Implementation, Course 7016</u> Covers the implementation of a batch application including Recipe Configuration, Aliasing, Phase Logic, Operations and Unit Procedures.</p>	<p>5 Days</p>
<p><u>Fieldbus Devices and Communication Bus Interface with DeltaV – Courses 7030C and 7037C</u> Covers Foundation Fieldbus instruments and control strategies using the DeltaV scaleable systems. Covers AS-I and Profibus.</p>	<p>5 Days</p>
<p><u>Simulation with Mimic – Course 7041</u> 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>3 ½ Days</p>
<p><u>Alarm Management with DeltaV Analyze – Course 7045</u> Covers alarm management concepts and techniques, alarm philosophy, alarm analysis and rationalization. Students will learn techniques for implementing a successful alarm management program consistent with EEMUA-191 recommendations and best practices. Students will gain knowledge of how DeltaV Analyze is used for alarm analysis, maintenance, and continuous improvement.</p>	<p>5 Days</p>
<p><u>EnTech- Boiler & Powerhouse Applications & Problem Solving – Course 8106</u> 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>3 Days</p>
<p><u>EnTech – Paper Machine Applications & Problem Solving – Course 8107</u> For technicians, engineers or other persons who have responsibility for troubleshooting paper machine processes, minimizing process variability and improving product uniformity.</p>	<p>4 Days</p>
<p><u>Power and Grounding for Electric Systems, Course 5590</u> Provides essential knowledge regarding the power and grounding system for DeltaV equipment.</p>	<p>2 Days</p>



Prerequisites may apply to certain courses

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