

# 2010 PROCONEX Educational Course Catalog

**Focus  
On  
Your  
Future**

*See  
inside  
for new  
programs!*



**PROCONEX<sup>®</sup>**

Providing Process Control Expertise



## Welcome to PROCONEX Educational Services.

PROCONEX is proud to deliver an intense learning experience designed to relate course instruction to your daily environment. Our team is dedicated to providing the highest level of certified training, to help you gain the competitive advantage necessary in today's changing world of process automation.

We are pleased to expand our training offering in 2010. Emerson Process Management's top-notch instructors will be available to you either directly in the classroom, or Virtually, via a two-way audio-video feed for your DeltaV and Syncade training needs.

In addition to Virtual Training, we are excited to offer an Educational E-Store from Emerson Process Management, where you can purchase and take training online. You can earn CEU's straight from your workspace in areas such as safety, engineering, DeltaV, and field devices.

Year after year, you can rely on our Educational Services Department to meet your training needs. In addition to regularly scheduled courses held at our training facility, our team can develop customized training for your staff and instruct the course at your site, or one that's convenient for you.

Every member of our team strives for premier customer satisfaction. Please feel free to let us know if there is any area that we can improve to make your next experience with PROCONEX more rewarding.

*PROCONEX, Royersford, PA*





# New Programs for 2010

## Save up to \$200 per student on Multiple-Day courses

### Early Registration

Register early for any multiple-day course and receive \$100 off each course registration!

### Group Discount

Register more than one student and receive \$100 off each course registration!

## Save up to \$75 per student on One-Day courses

### Early Registration

Register early for any one day course and receive \$50 off each course registration!

### Group Discount

Register more than one student and receive \$25 off each course registration!

\*Training Discounts are not valid on Virtual Course Offerings, or E-Store Courses. Policy information and registration deadlines are available at [www.proconexdirect.com/training.htm](http://www.proconexdirect.com/training.htm).

## Education E-Store

Emerson Process Management is pleased to announce the opening of an Educational E-Store. The E-Store offers students an online learning experience complete with CEU's. This convenient and flexible on-line learning tool is an excellent way to help manage your time and costs when you can't attend a factory, regional, or local training session. Course offerings include instruction on Field Devices, DeltaV, Safety and Engineering. For a complete list of E-Learning Courses, please visit: [www.proconexdirect.com/training.htm](http://www.proconexdirect.com/training.htm).

## Virtual Training

Emerson Process Management's V-Learning program offers students real-time training delivered via a two-way audio/video feed by a certified instructor. The instructor, located in Austin, TX has full access to DeltaV systems and the student desktops. Virtual training is delivered at the PROCONEX training facility and offered at a price of \$2850.00 per student for DeltaV courses. V-Learning is currently offered for DeltaV and Syncade training only. Please indicate during registration if you would like your scheduled course to be delivered as a Virtual Training session. Virtual Course delivery is not guaranteed. Determination will be made based on the number of student requests per scheduled course.

**REGISTER  
NOW!**

## 2010 Automation System Courses

### DeltaV Implementation

This course covers a complete DeltaV system implementation. Upon completion of this course, students will be able to define nodes, configure continuous and sequential control strategies, operate the system and define users and security.

January 25 – 29, June 7 – 11, or  
September 13 – 18

Course 7009 \$3495.00

### DeltaV Batch Implementation

This course covers a complete DeltaV batch application. Students will use DeltaV Batch software to configure recipe entities including, Aliasing, Phase Logic, Operations and Unit Procedures. Equipment entities will also be configured including, Unit Modules and Process Cells.

Prerequisite: Course 7009

February 1 – February 5,  
June 14 – 18, or  
September 20 – 24

Course 7016 \$3495.00

### DeltaV Implementation II

This course is for process control engineers responsible for configuring the DeltaV system. Advanced topics covered include: Function Block Structure, HART Inputs and Outputs, Analog Control Blocks, DeltaV Tune, Fuzzy Logic, Inspect, Bulk Edit, Unit Alarms, Display Scripting (VB), Custom Dynamos.

Prerequisite: Course 7009

April 12 – 16

Course 7017 \$3495.00

### *New for 2010*

All Automation System Courses will be offered as Classroom Instructed courses or Virtual Courses.

Please indicate your preference during registration. For complete details, please visit [www.proconexdirect.com/training.htm](http://www.proconexdirect.com/training.htm) or contact our Education Registrar at 610-495-1835. Virtual Course pricing is \$2850.00 per student.

Promotional discount pricing is not valid toward Virtual Courses. Virtual Course Delivery is not guaranteed. Determination will be made based on number of student requests per scheduled course for Virtual Course delivery.

## 2010 Regulator Courses

### Regulator Sizing Courses

These sessions will review the different styles of regulators and how they are best applied in process applications. The courses will cover regulator sizing procedures, installation practices and regulator stability. The discussions will include a review of:

- Self-operated vs. Pilot-operated
- Overpressure protection
- Series regulation
- Monitors
- Slam shut options
- Relief valves
- Regulator failure analysis and troubleshooting

Gas Regulator Sizing \$400.00  
April 1 Course PCX-3

Industrial Regulator Sizing \$400.00  
March 31 Course PCX-1

### Gas Regulator Technician

This course is designed for technicians responsible for the installation and maintenance of regulators and relief valves. Emphasizing intense hands-on training, this course teaches students to install, troubleshoot and adjust gas regulators and relief valves.

May 11 – 13

Course 1101 \$2095.00



**Versatility**  
**High Speed Response**  
**Easy Maintenance**  
**Safe Operation**

# 2010 Control Valve Courses

## Valve Technician I Short Course

This hands-on workshop explores functionality, installation, and calibration of valves and actuators. Installation, troubleshooting, parts replacement, and calibration of control valves, actuators and positioners, will be emphasized. Learn how to:

- Correctly perform installation procedures
- Perform basic troubleshooting
- Properly apply and calibrate positioners
- Change valve trim, gaskets and packing

**March 8 – 11**

Course 1404 \$2495.00

## Control Valve Sizing

This course explains how to select the correct control valve, actuator and accessories to operate through a full range of process conditions. The session will also include a review of severe service applications such as large pressure drops, high noise, high temperature steam, and the appropriate control valve for these more difficult applications.

**March 30**

Course PCX-2 \$400.00

## AMS Intelligent Device Manager

Completing the exercises which make up the AMS Device Manager training modules provides the quickest route to productive use of the AMS Suite of software. The training exercises focus on skills required by engineers and technicians, and are based on real-world tasks. Modules include, Configuring and Using AMS Device Manager, AMS System Administration, and AMS SNAP-ON Applications.

**March 16 – 18 or September 28 – 30**

Course 7020 \$2295.00

## DVC Performance Diagnostics

This one day class will instruct users on how to set up the advanced performance diagnostics features of the DVC product family. Spec sheet data needs to be set up correctly to get the most value from the PD instrument.

This course will cover fine tuning spec sheet data as well as covering:

- One button sweep
- Friction diagnostics
- Profiles
- Triggered profile
- Alert Records

Users will use both the handheld communicator (375/475) as well as the AMS Valvelink snap-on to perform the exercises. Advanced diagnostics functions such as step responses and total scans will also be covered.

**March 12**

Course 1404A \$750.00

## QuickCheck AMS Device Manager SNAP-ON

QuickCheck allows you to:

- Correctly accelerate interlock check-out during plant commissioning
- Reduce commissioning time when testing SIS voting
- Read and export as-built configuration information
- Gain real-time information from the AMS Intelligent Device Manager

**February 18 or October 21**

Course PCX-5 \$400.00



# PROCONEX Education Services

## Registration

Registering for educational training with *PROCONEX* is easy!

Simply visit [www.proconexdirect.com/training.htm](http://www.proconexdirect.com/training.htm)  
to register within a matter of minutes.

Shortly after registering, you will receive an enrollment confirmation and welcome packet. For phone inquiries, please contact our education coordinator at 610-495-1835.

## Payment Methods

Accepted methods of payment are credit card, check, or purchase order. Payment must be received prior to scheduled class date.

## Cancellation and Transfer Policy

We reserve the right to cancel or reschedule a school, up to 21 calendar days prior to the start date. If you must cancel your enrollment, we require 14 days advance notice, or you will incur a charge of 50% of the tuition fee. Full tuition is charged for failure to attend class without prior notice. Substitutions are permitted anytime at no charge.

## Inclement Weather Policy

In the event of inclement weather, please call *PROCONEX* at 610-495-1835. There will be a message on the answering system to inform you if the office will be closed for the day.

## Training Discount Policies

**Early Registration Discount:** Register early for any multiple-day course and receive \$100 off each course registration. Register early for any one-day course and receive \$50 off each course registration. To qualify for early registration, a student must register at least 8 weeks prior to scheduled course date. Registration deadline dates for all courses can be viewed at: [www.proconexdirect.com/training.htm](http://www.proconexdirect.com/training.htm). If a student meets the early registration requirements and the course date is re-scheduled, the Early Registration Discount will still be honored. The Early Registration Discount cannot be applied to Virtual Courses or E-Learning E-Store Courses.

**Group Discount:** Register more than one student for a scheduled Multiple-Day course and receive \$100 off each course registration. Register more than one student for a one-day course and receive \$25 off each course registration. In order for group discount to be honored, the additional student must be indicated at the time of registration. Group Discounts cannot be applied to Virtual Courses or E-Learning E-Store Courses.

The maximum discount available for a student registering for a multiple-day course is \$200. The maximum discount available for a student registering for a one-day course is \$75. If a student is registering for more than one course at the time of registration, training discounts may only be applied toward one of the scheduled courses.

# PROCONEX Education Services Department



Ed Smigo, Director of Information Technology

Ed Smigo is a true Process Control Expert. Ed has been employed by *PROCONEX* for the last 29 years. He has a very high level, technical, understanding of process control systems and equipment. Ed has been heading the education services department for the last 21 years. He was previously the District II Education Chairman for the Philadelphia section of the ISA. Prior to Emerson Process Management's local school offering, Ed was involved in training delivery for DCS courses.

*Ed directs course development, handles planning and execution, and determines the market needs to deliver a training program that is bar none, the best in the tri-state area for process control.*



## Quality Education You Can Rely On

Receive quality education from Emerson Process Management's top-notch instructors. The certification program for instructors, courseware and training hardware ensures you of knowledgeable and skilled trainers delivering current information on state-of-the-art equipment. For a further listing of educational courses, please visit: [www.emersonprocess.com/education](http://www.emersonprocess.com/education).

## Customized Training

*PROCONEX* Education Services Department can develop customized training based on your particular needs. Our instructors can provide training at your site, at our site, or a convenient location that can accommodate your student travelers. Custom training experience includes Foundation Fieldbus, ROC, High Voltage Maintenance, Operator, Maintenance, Design, and Safety. Please contact us to see how we can meet your training needs.



## Factory Training

Emerson Process Management hosts Factory Training courses in which the student will attend class in our fully equipped training laboratory. Our courses include small group hands-on sessions, one-on-one time with instructors, and a facility tour. Our workshops are simply the best investment you can make today in your employees and your business.



## PlantWeb University

PlantWeb University is an online learning center that facilitates your understanding and evaluation of new ways to improve project, process, and plant performance. Plantweb University offers dozens of courses, white papers, and other resources. Simply choose the topics that are of interest to you. For more information, visit [www.emersonprocess.com](http://www.emersonprocess.com).



[www.proconexdirect.com/training.htm](http://www.proconexdirect.com/training.htm)

## **Focus On Your Future**

*PROCONEX*  
103 Enterprise Drive  
Royersford, PA 19468  
Ph: 610-495-1835  
Fax: 610-495-1895

York, PA  
Ph: 717-751-0811  
Fax: 717-751-0509

Baltimore, MD  
Ph: 410-597-9000  
Fax: 410-265-8370

[www.proconexdirect.com](http://www.proconexdirect.com)  
[proconex.sales@proconexdirect.com](mailto:proconex.sales@proconexdirect.com)



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