

## 2010 NORTH AMERICA - DATES, LOCATION AND PRICING

# EDUCATIONAL SERVICES

FACTORY COURSES

REGIONAL CLASSES

ON-SITE TRAINING

eLEARNING

VIRTUAL LEARNING

**Providing the training you need, when and where you need it.**

### 2010 New Course Offerings

#### Plant Optimization: PlantWeb®

- 7080 Syncade™ Suite Overview
- 7081 Syncade™ Suite Document Control/Archiving
- 7082 Syncade™ Suite Training & Development
- 7083 Syncade™ Suite Equipment Tracking
- 7084 Syncade™ Suite Materials, Inventory & Order Management
- 7095 Syncade™ Suite Recipe Authoring 4.0

#### Plant Optimization: AMS Suite™: Intelligent Device Manager

- 7038 AMS Device Manager with FOUNDATION™ fieldbus

#### Plant Optimization: FOUNDATION™ fieldbus

- 7037 Communication Bus Interface with the DeltaV™ System

#### Plant Optimization: Machinery Health™ Management

- e2074 Vibration Analysis Module AMS Machinery Manager (V5.2 or V5.3)
- e2083 Oilview® for AMS Machinery Manager eLearning

#### Field Devices: Daniel

- D4311 Advanced Process GC Training
- D4312 Advanced Process GC Training (Model 700 and 500)

#### Field Devices: Analytical Instruments - Liquid

- 2202/V Rosemount Analytical Two-Wire Instrumentation Models Xmt & 5081 Transmitters
- 2203/V Rosemount Analytical Wireless Instrumentation Models 6081P & 6081C
- 2204/V Rosemount Analytical Four-Wire Instrumentation Models 54e, 1055, 1056 or 1057
- 2205/V Customer Specific Measurement Theory

#### Automation Systems: DeltaV™

- 9060 DeltaV pH Control Solutions
- eV10.3 DeltaV 10.3 Features

**Visit our website to select the training programs you need to enhance your knowledge and skills:**

[www.emersonprocess.com/education](http://www.emersonprocess.com/education). For course specifics view our Global Course Catalog on-line.

You may also view our 2010 North American CD for dates, locations, and price information.

[www.emersonprocess.com/education/registration/catalog\\_request.html](http://www.emersonprocess.com/education/registration/catalog_request.html)

Phone: 800-338-8158 or 641-754-3771 Email: [education@emersonprocess.com](mailto:education@emersonprocess.com)



## 2010 Course Scheduling, Locations & Pricing

Dates and prices are subject to change. For updated dates & locations visit our website at [www.emersonprocess.com/education](http://www.emersonprocess.com/education).

### Plant Optimization (pages: 7-32) All prices are in U.S. dollars.

PlantWeb® (800-338-8158 or 641-754-3771)	Price	2010 Start Dates
7101 PlantWeb/DeltaV Introduction	\$1,950	Austin, TX: 3/22, 10/18
7009 DeltaV Implementation I	\$2,750	Austin, TX: 1/11, 1/25, 2/8, 2/22, 3/8, 3/22, 4/5, 4/19, 5/3, 5/17, 6/7, 6/21, 7/12, 7/26, 8/9, 8/23, 9/13, 9/27, 10/11, 10/25, 11/8, 11/29, 12/13 Edmonton, AB: 1/18, 2/22, 3/22, 4/19, 5/10, 6/21, 7/26, 8/23, 9/20, 10/25, 11/22, 12/13 Fort McMurray, AB: 4/12, 10/4 Saskatoon, SK: 5/3, 11/15
7080 Syncade™ Suite Overview NEW	\$1,500	Austin, TX: 2/1, 5/17, 9/27
7081 Syncade™ Suite Document Control/Archiving NEW	\$2,000	Austin, TX: 2/3, 9/29
7082 Syncade™ Suite Training & Development NEW	\$ 700	Austin, TX: 6/17
7083 Syncade™ Suite Equipment Tracking NEW	\$1,400	Austin, TX: 5/19, 10/7
7084 Syncade™ Suite Materials, Inventory & Order Management NEW	\$2,000	Austin, TX: 6/14
7095 Syncade™ Suite Recipe Authoring 4.0 NEW	\$2,000	Austin, TX: 5/24
<b>AMS™ Suite: Intelligent Device Manager (800-338-8158 or 641-754-3771)</b> Note: * Courses at these locations are an additional \$100		
7020 AMS Device Manager	\$1,850	Austin, TX: 2/16, 6/8, 9/14 Eden Prairie, MN: 5/11, 7/13, 8/24, 12/14 Marshalltown, IA: 4/13 Las Vegas, NV*: 3/2, 10/26 Edmonton, AB: 4/5, 8/23, 10/25 Fort McMurray, AB: 3/15, 12/6 Ontario, CA: 7/27
7021 AMS Device Manager with Rosemount HART	\$1,500	Eden Prairie, MN: 5/25
7022 AMS Device Manager - Fisher HART Instrumentation	\$1,900	Marshalltown, IA: 3/16, 8/3
7038 AMS Device Manager - FOUNDATION™ fieldbus NEW \$2,650		Austin, TX: 4/12, 10/25
<b>FOUNDATION™ fieldbus (800-338-8158 or 641-754-3771)</b>		
2370 Fieldbus Measurement Instruments	\$2,000	Eden Prairie, MN: 4/19, 10/18
7030 Fieldbus Devices	\$2,550	Austin, TX: 5/24, 11/8
7032 Fieldbus Systems and Devices	\$2,750	Austin, TX: 3/8, 6/14, 9/20, 12/6 Edmonton, AB: 3/15, 7/12, 9/27 Fort McMurray, AB: 1/25, 11/8
7035 Practical Implementation of FOUNDATION™ fieldbus	\$1,350	Call to Schedule: 800-338-8158 or 641-754-3771
7036 Fieldbus Digital Valve Controllers	\$1,900	Marshalltown, IA: 1/26, 5/10, 7/27 Las Vegas, NV*: 4/13
7037 Communication Bus Interface - DeltaV™ System NEW \$1950		Austin, TX: 3/15, 9/27
<b>smart Safety Instrumented Systems (800-338-8158 or 641-754-3771)</b>		
7301 DeltaV SIS Overview	\$1,950	Austin, TX: 6/28, 8/23
7303 DeltaV Safety Instrumented System Maintenance	\$2,100	Austin, TX: 7/12, 12/6 Edmonton, AB: 5/12, 10/13
7305 DeltaV SIS Implementation	\$2,750	Austin, TX: 1/11, 4/19, 6/21, 8/30, 11/29 Edmonton, AB: 5/17, 10/18
<b>Process Control (800-338-8158 or 641-754-3771)</b>		
1430 EnTech Toolkit Training	\$1,700	Call to Discuss: 800-338-8158 or 641-754-3771
8106 Boiler & Powerhouse Applications & Problem Solving	\$1,700	Toronto, ON: 6/7
8107 Paper Machine Applications & Problem Solving	\$2,000	Toronto, ON: 3/1
9000 Introduction to Process Control	\$2,000	Marshalltown, IA: 4/19, 8/9, 10/11
9006 Loop Tuning Short Course	\$1,100	Call to Discuss: 800-338-8158 or 641-754-3771
9030 Process Dynamics and Tuning Fundamentals (PCE I)	\$2,000	Toronto, ON: 4/19, 11/8
9031 Process Analysis and Minimizing Variability (PCE II)	\$2,000	Toronto, ON: 4/26, 11/15
9032 Applied Modern Loop Tuning	\$1,700	Toronto, ON: 3/22, 9/13 Austin, TX: 2/8
9034 Applied Advanced Regulatory Controls	\$1,700	Toronto, ON: 10/18 Austin, TX: 5/17
<b>Refining Process Training (412-826-5440)</b> All programs are scheduled for presentation at the Crown Plaza Hoston North Greenspoint in Houston, TX.		
RPS100 Basics of Petroleum Refining, Non-Tech Personnel	\$ 750	Houston, TX: 2/23, 5/17, 10/26
RPS110 Introduction to Petroleum Refining Processing	\$1,750	Houston, TX: 2/24, 5/18, 10/27
RPS120 Amine Treating & Sulfur Recovery Technologies	\$1,750	Houston, TX: 5/19, 11/2
RPS200 Fluid Catalytic Cracking Process Technology	\$1,750	Houston, TX: 3/9, 5/17, 10/18
RPS300 Hydrotreating & Hydrocracking Process Technology	\$1,750	Houston, TX: 3/10, 10/27
RPS400 Catalytic Reforming Process Technology	\$1,750	Houston, TX: 5/4
RPS500 Crude Oil Distillation	\$1,750	Houston, TX: 2/24, 10/20
RPS600 Delayed Coking Process Technology	\$1,750	Houston, TX: 3/10, 10/26
RPS800 Gasoline/Diesel Blending	\$2,000	Houston, TX: 3/8, 11/3
<b>Machinery Health™ Management (800-675-4726 or 865-675-2400)</b>		
2015 Balance Theory and Application	\$1,850	Knoxville, TN: 2/15, 6/7, 10/11
2018 Infrared Analysis Software for AMS Machinery Health™ Manager	\$1,400	Knoxville, TN: 3/15, 9/20
2019 IR Thermography Level I Certification	\$1,850	Knoxville, TN: 3/8, 9/13
2021EX: ISO Category I Vibration Analyst Cert. Exam	\$ 250	Knoxville, TN: 1/15, 2/19, 3/26, 4/23, 5/28, 6/25, 7/16, 8/27, 10/15, 12/3 San Diego, CA: 4/16, 10/1 Austin, TX: 3/5, 8/6
2022EX: ISO Category II Vibration Analyst Cert. Exam	\$ 250	Knoxville, TN: 1/22, 3/12, 4/30, 6/11, 7/23, 9/3, 10/29, 12/10 San Diego, CA: 5/28, 11/5 Austin, TX: 6/25, 11/12
2023EX: ISO Category III Vibration Analyst Cert. Exam	\$ 350	Knoxville, TN: 1/29, 4/9, 6/25, 9/3, 11/12 San Diego, CA: 7/23 Austin, TX: 10/22 Edmonton, AB: 2/26
2031 Basic Vibration Analysis	\$1,850	Knoxville, TN: 1/11, 2/15, 3/22, 4/19, 5/24, 6/21, 7/12, 8/23, 10/11, 11/29, 12/3 Austin, TX: 3/1, 8/2 San Diego, CA: 4/12, 9/27
2032 Intermediate Vibration Analysis	\$1,850	Knoxville, TN: 1/18, 3/8, 4/26, 6/7, 7/19, 8/30, 10/25, 12/6 Austin, TX: 6/21, 11/8 San Diego, CA: 5/24, 11/1
2033 Advanced Vibration Analysis	\$1,850	Edmonton, AB: Call to Schedule
2035/2075 Mystery PeakVue Tech.™ & Autocorrelation	\$1,400	Knoxville, TN: 1/25, 4/5, 6/21, 8/30, 11/8 Austin, TX: 10/18 San Diego, CA: 7/19 Edmonton, AB: 2/22
2053 Root Cause Failure Analysis	\$1,400	Knoxville, TN: 2/16, 6/28, 10/19
2067 Basic Ultrasonic Theory and Techniques - Level 1	\$1,400	Knoxville, TN: 7/7
2068 Intro to AMST™ Suite: Machinery Health Manager	\$1,850	Knoxville, TN: 3/9, 6/28, 10/26 Knoxville, TN: 1/11, 2/22, 3/22, 4/26, 5/24, 6/21, 7/19, 8/16, 9/20, 11/1, 12/6 Austin, TX: 4/12, 9/13 San Diego, CA: 3/1, 9/20 Edmonton, AB: Call to schedule
2069 Fundamentals of Vibration	\$1,050	Knoxville, TN: 1/4, 2/8, 3/15, 4/12, 5/17, 6/14, 7/12, 8/9, 9/13, 10/18, 11/15, 12/13 Austin, TX: 2/22, 6/10, 9/20, 11/18 San Diego, CA: 2/1, 8/2
2070 Adv. AMST™ Suite: Machinery Health Manager	\$1,850	Knoxville, TN: 2/1, 5/3, 8/2, 11/1 Austin, TX: 7/26 San Diego, CA: 7/12 Edmonton, AB: 11/29
2072 Fund. of CSI 2130 Machinery Health Analyzer	\$1,050	Knoxville, TN: 1/6, 2/10, 3/17, 4/14, 5/19, 6/16, 7/14, 8/11, 9/15, 10/20, 11/17, 12/15 Austin, TX: 2/24, 9/22 San Diego, CA: 2/3, 8/4 Edmonton, AB: 5/31
2074 Inter. AMST™ Suite: Machinery Health Manager	\$1,850	Knoxville, TN: 1/18, 3/1, 4/19, 5/17, 7/26, 8/23, 10/4, 11/8, 12/13 Austin, TX: 4/19, 10/11 San Diego, CA: 5/17, 10/25
2080 On-Line Protection (CSI 6000/6500) Operation and Maintenance	\$1,050	Knoxville, TN: 2/8, 5/10, 8/16, 11/15
2081 Electric/Motor Diagnostics and MotorView®	\$1,850	Knoxville, TN: 3/22, 9/27
2082A Level I Lubrication with Certification	\$ 800	Knoxville, TN: 1/25, 5/10, 9/27
2082B Level II Lubrication with Certification.	\$ 800	Knoxville, TN: 1/26, 5/11, 9/28
2083 Oilview® for AMS Machinery Manager	\$1,850	Knoxville, TN: 2/1, 5/17, 10/4
2084 Wear Debris Analysis	\$1,050	Knoxville, TN: 1/28, 5/13, 9/30 San Diego, CA: 6/10
2088 On-Line Prediction (CSI 4500/6500/XP32) Operation and Maintenance	\$1,900	Knoxville, TN: 2/1, 5/3, 8/9, 11/8
2089 Turbo Machinery Disgnosis - CSI 4500 -Transient	\$2,100	Knoxville, TN: 8/16
2090 CSI 9210 Machinery Health Transmitter	\$1,050	Knoxville, TN: 6/8, 11/16
2091 Advanced CSI 2130 with PeakVue	\$1,400	Knoxville, TN: 1/5, 4/6, 6/28, 9/8, 12/20 Austin, TX: 5/11 Edmonton, AB: 6/2
2092 Laser Alignment for CSI 2130	\$1,200	Knoxville, TN: 2/23, 6/15, 10/19
2093 Maintenance Best Practice NEW	\$1,050	Knoxville, TN: 3/15, 3/17, 7/12, 7/14, 11/15, 11/17
2375 Wireless Self Organizing Network	\$1,300	Eden Prairie, MN: 2/16, 5/18, 10/26
e2130 Fundamentals- CSI 2130 Machinery Health Analyzer	\$ 299	To Register: 800-675-4726 <a href="http://www.emersonprocess.com/education">www.emersonprocess.com/education</a> Quick Links: eSTORE
e2074 Vibration Analysis Module AMS Machinery Manager (V5.2 or V5.3) NEW	\$ 50	To Register: 800-675-4726 <a href="http://www.emersonprocess.com/education">www.emersonprocess.com/education</a> Quick Links: eSTORE
e2083 Oilview® for AMS Machinery Manager eLearning NEW	\$ 499	To Register: 800-675-4726 <a href="http://www.emersonprocess.com/education">www.emersonprocess.com/education</a> Quick Links: eSTORE

## 2010 Course Scheduling, Locations & Pricing

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### Field Devices (pages: 33-68)

All prices are in U.S. dollars.

#### Control Valves (800-338-8158 or 641-754-3771)

	Price
1300 Control Valve Engineering I	\$2,100
1350 Control Valve Engineering II	\$2,250
1400 Valve Technician I	\$2,000
1402 Baumann Valve Technician	\$1,850
1427 FlowScanner Data Acquisition & Interpretation	\$2,050
1428 Advanced FlowScanner Diagnostic Interpretation	\$2,000
1450 Valve Technician II	\$2,000
1451 Valve Maintenance with Digital Valve Controller Calibration	\$2,000
1700 Instrument Maintenance & Repair	\$2,000
1710 Instrument Technician	\$2,000
1751 Fundamentals of FIELDVUE Digital Instruments & Handheld Communicators	\$1,100
1752 ValveLink & Diagnostics for FIELDVUE — Operations	\$1,300
1753N Commercially Dedicated DVC6000 Digital Valve Controller Installation, Configuration and Troubleshooting	\$1,900
1759 ValveLink & Diagnostics for FIELDVUE— Data	\$1,700
7022 AMS Device Manager with Fisher HART Instrumentation	\$1,900
7036 Fieldbus Digital Valve Controllers	\$1,900
e9020 eLearning: Fisher Valve Fundamentals	\$ 275

#### Daniel (713-827-6314)

D4110 Introduction to Gas Chromatographs	\$1,800
D4120 Introduction to Natural Gas Orifice Flow Metering	\$1,150
D4210 Operation & Maintenance of Gas Chromatographs	\$1,800
D4230 Operation & Maintenance of Gas Ultrasonics	\$1,800
D4241 Operation & Maintenance of Petrocount™ Preset	\$1,430
D4260 Operation and Mainten. of Daniel S600 Flow Computers	\$1,800
D4270 Operation & Maintenance of Daniel Compact Prover™	\$1,800
D4280 Operation and Mainten. of Liquid Ultrasonic Flowmeters	\$1,800
D4290 Operation & Maintenance of Control Valves & Turbines	\$1,800
D4310 Model 500/1000 Advanced Gas Chromatographs	\$1,800
D4311 Advanced Process GC Training <b>NEW</b>	\$2,100
D4312 Advanced Process GC Training (Model 700 and 500) <b>NEW</b>	\$2,100
D4320 Advanced Natural Gas Orifice Flow Metering	\$1,430
D4330 Model 700 Advanced Gas Chromatograph	\$1,800
D4410 Operation & Maintenance of DL8000	\$1,800
D4420 Introduction to M2000 Sr. Orifice Fitting	\$1,800

#### Analytical Instruments: Liquid (800-854-8257 ext. 8533)

2200 General pH, Conductivity, and ORP Theory	\$ 600	Irvine, CA: Call to Schedule: 800-854-8257 ext. 8533
2201 Amperometric Measurement Theory: Chlorine, Dissolved Oxygen & Ozone	\$ 600	Irvine, CA: Call to Schedule: 800-854-8257 ext. 8533
2202/V Rosemount Analytical Two-Wire Instrumentation Models Xmt & 5081 Transmitters <b>NEW</b>	\$ 600	Irvine, CA: Call to Schedule: 800-854-8257 ext. 8533
2203/V Rosemount Analytical Wireless Instrumentation Models 6081P & 6081C <b>NEW</b>	\$ 600	Irvine, CA: Call to Schedule: 800-854-8257 ext. 8533
2204/V Rosemount Analytical Four-Wire Instrumentation Models 54e, 1055, 1056 or 1057 <b>NEW</b>	\$ 600	Irvine, CA: Call to Schedule: 800-854-8257 ext. 8533
2205/V Customer Specific Measurement Theory <b>NEW</b>	\$ 600	Irvine, CA: Call to Schedule: 800-854-8257 ext. 8533

#### Measurement (800-338-8158 or 641-754-3771)

2302 1151 Smart Pressure Transmitter	\$ 600
2305 3051 Smart Pressure Transmitter	\$ 650
2306 3051 Smart Pressure Transmitter Using AMS Device Manager	\$ 650
2307 3051 Fieldbus Pressure Transmitter	\$ 650
2308 3051S Smart Pressure Transmitter	\$ 650
2321 3144P Temperature Transmitters	\$ 650
2323 3144P Smart Temperature Transmitters Using AMS Device Manager	\$ 650
2324 3144P Fieldbus Temperature Transmitters	\$ 650
2326 Process Measurement Products I (Pressure & Temperature)	\$1,700
2327 Process Measurement Products II (Flow)	\$1,300
2328 848 Fieldbus Temperature Transmitter	\$ 650
2329 Pressure, Temperature & Magnetic Flow Smart Transmitters	\$1,200
2332 3300 Guided Wave Radar Level Transmitter	\$ 650
2333 Process Measurement Products III (Level)	\$1,300
2334F 5600 Series Fieldbus Radar Level Transmitter	\$ 650
2334H 5600 Series HART Radar Level Transmitter	\$ 650
2336H 5400 Series HART Radar Level Transmitter	\$ 650
2337H 5300 High Performance Guided Wave Radar HART Level Transmitter	\$ 650
2340 8700 Series Smart Magnetic Flowmeter	\$ 650
2341 8800 Smart Vortex Flowmeter	\$ 600
2342 3095FT Flow Transmitter	\$ 650
2343 3095MV Multi-Variable Transmitters	\$ 650
2344 8732 Series Smart Magnetic Flowmeter	\$ 650
2345 Model 3095FB Modbus Multi-Variable Transmitter	\$ 650
2346 8700 Series Smart Magnetic Flowmeter Using AMS Device Manager	\$ 650
2347 8742 Fieldbus Magnetic Flowmeter System	\$ 650
2348 8800 Smart Vortex Flowmeter Using AMS Device Manager	\$ 650
2349 8800C Fieldbus Vortex Flowmeter	\$ 650
2370 Fieldbus Measurement Instruments	\$2,000
2375 Wireless Self Organizing Network	\$1,300
7020 AMS Device Manager	\$1,850
7021 AMS Device Manager with Rosemount HART Instruments	\$1,500

#### 2010 Start Dates Note: \* Courses at these locations are an additional \$100

Marshalltown, IA: 1/25, 3/15, 6/7, 8/30, 10/18	Ontario, CA* (course *1304): 8/2
Las Vegas, NV* (course *1304): 2/22, 9/21	
Marshalltown, IA: 2/1, 6/14, 7/26	Las Vegas, NV* (course *1354): 5/11
Marshalltown, IA: 2/1, 3/8, 5/17, 7/19, 9/13, 12/6	Edmonton, AB: 3/1, 5/17, 9/20, 11/22
Columbia, SC* (course *1404): 3/23, 11/16	Ontario, CA* (course *1404): 4/20
Las Vegas, NV* (course *1404): 1/19	
Call to Schedule: 800-338-8158 or 641-754-3771	
Marshalltown, IA: 1/18, 3/22, 8/2	
Marshalltown, IA: 2/16, 8/24	
Edmonton, AB: 8/30	
Marshalltown, IA: 3/1, 7/12	Las Vegas, NV* (course *1456): 7/13
Columbia, SC* (course *1456): 8/10	Ontario, CA* (course *1456): 6/15
Marshalltown, IA: 4/12, 9/27	Edmonton, AB: 10/18
Marshalltown, IA: 2/8, 6/7, 8/16, 12/13	
Marshalltown, IA: 1/11, 5/3, 6/21, 8/30, 12/6	Edmonton, AB: 2/8, 5/31, 11/8
Marshalltown, IA: 1/13, 5/5, 6/23, 9/1, 12/8	Edmonton, AB: 2/10, 6/2, 11/10
Marshalltown, IA: 5/18	
Marshalltown, IA: 2/23, 7/20, 9/28	Edmonton, AB: 2/16, 11/15
Marshalltown, IA: 3/16, 8/3	Edmonton, AB: 6/14, 9/7
Marshalltown, IA: 1/26, 5/10, 7/27	Edmonton, AB: 4/13
Fort McMurray, AB: 5/3	
To Register: 800-338-8158 - 641-754-3771	<a href="http://www.emersonprocess.com/education">www.emersonprocess.com/education</a> Quick Link: eSTORE

Houston, TX: (Model 500): 1/13, 4/7, 10/6	(Model 700): 2/10, 5/5, 8/4
Houston, TX: 3/15	
Houston, TX: (Model 500): 1/18, 3/22, 4/12, 7/12, 9/13, 10/11, 12/6	(Model 700): 2/15, 5/10, 6/7, 8/9, 11/1
Houston, TX: 2/1, 3/1, 4/26, 5/24, 6/21, 7/26, 8/23, 9/27, 10/25	
Call to Discuss Price/Location/Start Date: 713-827-6314	
Houston, TX: 9/20	
Call to Discuss Price/Location/Start Date: 713-827-6314	
Call to Discuss Price/Location/Start Date: 713-827-6314	
Call to Discuss Price/Location/Start Date: 713-827-6314	
Houston, TX: 1/25, 4/19, 7/19, 10/18	
Houston, TX: 8/30	
Houston, TX: 3/8, 6/14	
Houston, TX: 3/17	
Houston, TX: 2/22, 5/17, 8/16, 11/8	
Call to Discuss Price/Location/Start Date: 713-827-6314	
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**Field Devices Continued (pages: 33-68) All prices are in U.S. dollars.**

### Micro Motion (800-338-8158 or 641-754-3771)

2351	Micro Motion Sensors and RFT9739 Transmitter
2352	Micro Motion Comprehensive Product Training
2357	Micro Motion Sensors and RFT9739 Transmitter
2358	Micro Motion Series 1000/2000

Price	2010 Start Dates	*Save \$100 on 2381 if you take course 2352 the same week!
\$ 600	Call to Schedule: 800-338-8158 or 641-754-3771	
\$1,150*	Boulder, CO: 1/14, 2/8, 3/15, 4/5, 7/19, 8/9, 9/13, 11/15	
\$ 600	Call to Schedule: 800-338-8158 or 641-754-3771	
\$ 650	Pasadena, TX: 3/11 Lakeland, FL: 3/4 Salt Lake City, UT: 3/2, 3/3 Pittsburgh, PA: 4/13 Charlotte, NC: 4/22 Hinsdale, IL: 5/11 St. Louis, MO: 8/13	
\$ 600*	Boulder, CO: 1/7, 2/11, 3/18, 4/8, 7/22, 8/12, 9/16, 11/8	

2381 Micro Motion Modbus Digital Communication

### Analytical Instruments: Process (800-854-8257 ext. 8533)

2102	951C Chemiluminescence Analyzer
2103	400A Hydrocarbon Analyzer
2107	NGA 2000 Process Gas Analyzers
2110	MLT Process Gas Analyzers
2113	BINOS/OXYNOS/HYDRON Analyzers
2150	PowerVue™/Hagan Pneumatic Power Positioners
2153	Oxygen Flue Gas Analyzer Maintenance including Oxymitter, X-STREAM O2 and World Class 3000
2157	Continuous Emissions Monitoring Systems (CEMS)
2168	CCO 5500 CO Analyzer Maintenance
2169	OPM 3000/4000 - Opacity Monitor Maintenance
2170	X-STREAM PGA (Process Gas Analyzers)

Call to Discuss Price/Location/Start Date: 800-854-8257 ext. 8533
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### Regulator Technologies: Regulators & Gas Control (800-338-8158 or 641-754-3771) Note: \* Courses at these locations are an additional \$100

1100	Gas Regulator Technician
1106	Gas Regulator Troubleshooting
8000	Gas Control Conference

\$1,800	Marshalltown, IA: 4/27, 8/30 Columbia, SC* (course 1101): 6/15
\$1,800	Marshalltown, IA: 5/25, 9/21
\$1,500	McKinney, TX: 3/22, 9/27

### Valve Automation (281-727-5300)

VA101	Bettis Gas/Hydraulic Product Servicing
VA102	Bettis PressureGuard & Linear Actuators, Control Systems & Accessories & Multiport Flow Selector Products
VA103	Bettis Rack & Pinion & Scotch-Yoke Product Servicing
VA104	Bettis Rack & Pinion and Scotch-Yoke Products
VA106	Dantorque Products
VA107	EI-O-Matic Products
VA108	Hytork Products
VA109	Shafer Products

Edmonton, AB: Call to Discuss Date & Price: 780-450-3600  
Edmonton, AB: Call to Discuss Date & Price: 780-450-3600

Waller, TX: Call to Discuss Date & Price: 281-727-5300  
Waller, TX: Call to Discuss Date & Price: 281-727-5300  
This course can be tailored to meet your needs. Call to Discuss Details: 419-529-4311 ext. 1170  
Tampa Bay, FL: Call to Discuss Date & Price: 813-630-2255  
Tampa Bay, FL: Call to Discuss Date & Price: 813-630-2255  
This course can be tailored to meet your needs. Call to Discuss Details: 419-529-4311 ext. 1170

### Automation Systems (pages: 69-102) All prices are in U.S. dollars.

#### DeltaV™ (800-338-8158 or 641-754-3771)

5590	Power & Grounding for Electronic Systems
7009	DeltaV Implementation I

#### Price 2010 Start Dates

\$1,450	Austin, TX: 7/13
\$2,750	Austin, TX: 1/11, 1/25, 2/8, 2/22, 3/8, 3/22, 4/5, 4/19, 5/3, 5/17, 6/7, 6/21, 7/12, 7/26, 8/9, 8/23, 9/13, 9/27, 10/11, 10/25, 11/8, 11/29, 12/13 Edmonton, AB: 1/18, 2/22, 3/22, 4/19, 5/10, 6/21, 7/26, 8/23, 9/20, 10/25, 11/22, 12/13 Fort McMurray, AB: 4/12, 10/4 Saskatoon, SK: 5/3, 11/15

7012	DeltaV Operator Interface for Continuous Control
e7012	DeltaV Operator Interface for Continuous Control
7014	DeltaV Operator Interface for Batch
7016	DeltaV Systems Batch Implementation
7017	DeltaV Implementation II

Call to Discuss Date/Price: 800-338-8158 or 641-754-3771  
Available On-Line: [www.emersonprocess.com/education](http://www.emersonprocess.com/education) Quick Links: eSTORE  
Call to Discuss Date & Price: 800-338-8158 or 641-754-3771

7018 DeltaV Hardware & Troubleshooting

Austin, TX: 2/1, 4/26, 7/19, 9/20, 12/6  
Austin, TX: 2/15, 5/10, 8/16, 11/15 Edmonton, AB: 2/8, 4/26, 6/7, 8/30, 10/25, 12/6  
Saskatoon, SK: 6/14, 11/22  
Austin, TX: 1/18, 3/15, 5/10, 7/19, 9/20, 11/15 Edmonton, AB: 2/16, 4/5, 6/14, 8/16, 10/18, 12/6  
Fort McMurray, AB: 3/1, 5/31, 9/13, 11/29

7024	DeltaV Systems Administration XP/Server 2003	\$2,750
7025	DeltaV Advanced Graphics	\$2,750
7041	Simulation with Mimic	\$2,200
7045	Alarm Management with DeltaV Analyze	\$1,600
7060	DeltaV Operate for PROVOX	\$2,450
7070	DeltaV Implementation for System Integrators	\$3,950
7071	DeltaV Batch Implemen. for System Integrators	\$3,950
7101	PlantWeb/DeltaV Introduction	\$1,950
7201	DeltaV Advanced Control	\$2,850
7202	DeltaV Model Predictive Control	\$2,150
7301	DeltaV SIS Overview	\$1,950
7303	DeltaV Safety Instrumented System (SIS) Maintenance	\$2,100
7305	DeltaV SIS Implementation	\$2,750
9060	DeltaV pH Control Solutions <b>NEW</b>	\$2,200
eV10.3	DeltaV 10.3 Features <b>NEW</b>	\$ 200
OTS	DeltaV Operator Training Solutions	
CD	DeltaV Version 7.4 Continuous Historian Tutorial	\$ 395

Austin, TX: 1/25, 4/26, 7/26, 11/1  
Austin, TX: 3/1, 6/14, 10/4 Edmonton, AB: 3/8, 8/9, 11/29  
Austin, TX: 4/12, 10/18  
Austin, TX: 10/5  
Call to Discuss Date & Price: 800-338-8158 or 641-754-3771  
Austin, TX: 3/29, 10/18  
Austin, TX: 4/5, 10/25  
Austin, TX: 3/22, 10/18  
Austin, TX: 4/12, 9/27  
Austin, TX: 8/2  
Austin, TX: 6/28, 8/23  
Austin, TX: 7/12, 12/6 Edmonton, AB: 5/12, 10/13  
Austin, TX: 1/11, 4/19, 6/21, 8/30, 11/29 Edmonton, AB: 5/17, 10/18  
Austin, TX: 4/5  
Available On-Line: [www.emersonprocess.com/education](http://www.emersonprocess.com/education) Quick Links: eSTORE  
More details: [www.emersonprocess.com/education/ots.asp](http://www.emersonprocess.com/education/ots.asp)  
Part Number: D750508X012 To order call: 800-338-8158 or (641) 754-3771



# 2010 Course Scheduling, Locations & Pricing

Dates and prices are subject to change. For updated dates & locations visit our website at [www.emersonprocess.com/education](http://www.emersonprocess.com/education).

## Automation Systems (pages: 69-102)

All prices are in U.S. dollars.

### Ovation® (800-445-9723 or 412-963-3900)

OV001-UNX	Ovation Project Planning
OV001-WIN	Ovation Project Planning
OV010-UNX	Ovation Operator
OV010-WIN	Ovation Operator
OV100-UNX	Starting with Data Acquisition
OV100-WIN	Starting with Data Acquisition
OV115-WIN	Solaris to Windows
OV120-UNX	Upgrade to Ovation
OV120-WIN	Upgrade to Ovation
OV200-UNX-1.8.x	Building & Maintaining Ovation Control
OV200-UNX-1.9.x	Building & Maintaining Ovation Control
OV200-WIN-3.0.x	Building & Maintaining Ovation Control
OV200-WIN-3.1.x	Building & Maintaining Ovation Control
OV210-UNX	Building Ovation Graphics
OV210-WIN	Building Ovation Graphics
OV215-WIN	Ovation Software Project
OV216-WIN	Ovation Hardware Project
OV217-UNX-1.8.X	Hardware/Software Project
OV220-UNX	Ovation System Installation
OV220-WIN	Ovation System Installation
OV230-UNX	Ovation System Administration
OV230-WIN	Ovation System Administration
OV240-UNX	Ovation Historical Data Collection & Reports
OV240-WIN	Ovation Enterprise Historian (eDB)
OV245-WIN	Ovation Process Historian
OV246-WIN	Ovation Report Building

### Visit Website for Current Ovation Schedule & Pricing

OV248-WIN	EDS™
OV250-UNX	Configuring the Ovation Serial Link Controller I/O Module
OV250-WIN	Configuring the Ovation Serial Link Controller I/O Module
OV260-UNX	Configuring the Ovation Data Link Server I/O Module
OV265	Ovation Expert Transition
OV270-WIN	Ovation with HART and Smart Devices
OV270-UNX	Ovation with HART and Smart Devices
OV275-WIN	AMS® Suite: Intelligent Device Manager
OV280-WIN	Ovation SCADA System
OV295-UNX	Ovation Third-Party I/O Interfaces
OV295-WIN	Ovation Third-Party I/O Interfaces
OV300-UNX	Ovation Troubleshooting
OV300-WIN	Ovation Troubleshooting
OV310-WIN	Advanced Ovation Graphics
OV310-UNX	Advanced Ovation Graphics
OV320-UNX	Ovation Network Administration
OV320-WIN	Ovation Network Administration
OV330	Ovation Advanced Control
OV340-WIN	Ovation Applications with Fieldbus
OV360-WIN	Ovation Security: 2.4 & Higher Level Systems
OV370-WIN	Ovation Steam Turbine Control
OV380-WIN	Ovation Boiler Control
OV400-UNX	Ovation Certification Program
OV400-WIN	Ovation Certification Program
SP-GPA	SmartProcess Global Performance Advisor

### PROVOX® (800-338-8158 or 641-754-3771)

5160	Introduction to PROVOX System Configuration Using ENVOX on a DEC-Platform	\$2,950	Austin, TX: 5/10, 12/6
5170	Introduction to PROVOX System Configuration Using ENVOX and Operator Workplace	\$2,950	Austin, TX: 5/10, 12/6
5171	PROVOX System Configuration Using Control Desktop and PROVOX Operator Console	\$2,950	Austin, TX: 5/10, 12/6
5190	PROVOX System Configuration Using ENVOX and PROVOX Operator Console	\$2,950	Austin, TX: 5/10, 12/6
5197	PROVOX System Configuration Using Control Desktop and DeltaV Operate	\$2,950	Austin, TX: 5/10, 12/6
5290	PROVOX Batch Control Config. Using ENVOX for PROVIEW, PROVOX Operator Console/OWC	\$2,950	Austin, TX: 6/14
5360	PROVOX Continuous Control Configuration: ENVOX	\$2,950	Austin, TX: 5/17, 12/13
5370	PROVOX Continuous Control Configuration: ENVOX and Operator Workplace	\$2,950	Austin, TX: 5/17, 12/13
5371	PROVOX Continuous Control Config Using Control Desktop OWP	\$2,950	Austin, TX: 5/17, 12/13
5375	Mastering PROVOX FSTs	\$2,950	Austin, TX: 10/14
5390	PROVOX Adv. Continuous Control Configuration Using ENVOX /PROVOX Operator Console	\$2,950	Austin, TX: 5/17, 12/13
5397	Advanced PROVOX System Configuration Using Control Desktop and DeltaV Operate	\$2,950	Austin, TX: 5/17, 12/13
5503	PROVOX Systems Hardware & Troubleshooting: SR-90 and 20-Series IFC/UOC Controllers	\$2,950	Austin, TX: 6/7

### Remote Automation Solutions: ROC & FloBoss (800-338-8158 or 641-754-3771)

Note: \* Courses at these locations are an additional \$100

1200	ROC & FloBoss Engineering I	\$2,050	Marshalltown, IA: 1/18, 7/12
1210	ROC & FloBoss Engineering II	\$2,050	Edmonton, AB: 3/8, 5/3, 7/5, 9/13
1217	ROC & FloBoss Troubleshooting & Problem Solving	\$1,700	Marshalltown, IA: 2/15
1220	FloBoss Engineering I	\$2,050	Marshalltown, IA: 4/12, 9/27
1240	ROC 809 Engineering I	\$2,050	Marshalltown, IA: 9/13
1241	DS800 for ROC809 Programming	\$1,800	Marshalltown, IA: 5/10, 8/16, 11/1
			Marshalltown, IA: 5/18, 8/24, 11/9

### RS3 Systems (800-338-8158 or 641-754-3771)

3100	Introduction to RS3	\$2,950	Austin, TX: 5/24, 11/29
3110	RS3 Operator Station Transition	\$1,350	Austin, TX: Call to Schedule: 800-338-8158 or 641-754-3771
3200	RS3 Hardware and Maintenance	\$2,950	Austin, TX: 5/24, 11/29
3400	RS3 Process Operation	\$2,050	Austin, TX: Call to Schedule: 800-338-8158 or 641-754-3771
3500	RS3 Advanced Configuration	\$2,100	Austin, TX: 5/24, 11/29
3600	Configuring RS3 Control for Batch Processes	\$2,950	Austin, TX: Call to Schedule: 800-338-8158 or 641-754-3771

### Terminal Automation (281-207-2855)

TA100	Terminal Management System Training Using DeltaV™ for Preset Batch Control and Load Rack Monitoring	\$3,000	Houston, TX: Call to Discuss Price/Location/Start Date: 281-207-2855
TA200	Terminal Management System Training Using Traditional Presets	\$3,000	Houston, TX: Call to Discuss Price/Location/Start Date: 281-207-2855
TA300	Terminal Management System Training Using Traditional Presets and DeltaV for Preset Batch Control and Load Rack Monitoring	\$3,750	Houston, TX: Call to Discuss Price/Location/Start Date: 281-207-2855

### WDPF (800-445-9723 or 412-963-3900) Visit Website for Current WDPF Schedule & Pricing

WSU-8.7	WEStation Software User
WSM-8.7	WEStation Software Maintenance
WHM-8.7	WEStation Hardware Maintenance
WHL-8.7	WEStation Historian / Logger
ADM-8.7	WEStation System Administration
WES218	WEStation Utilities

## Electrical (pages: 103-110) (775-746-8484) All prices are in U.S. dollars.

Price, location & start date is determined by class size, location & topic. Please call 775-746-8484 to discuss.



## 2010 Course Scheduling, Locations & Pricing

Dates and prices are subject to change. For updated dates & locations visit our website at [www.emersonprocess.com/education](http://www.emersonprocess.com/education).

### Plant Safety (pages: 107-111) (2710 & 2711 Call 800-338-8158 / 2720-2731 Call 512-834-7689 All prices are in U.S. dollars.

2710 Preventing Catastrophic Accidents-The Fundamentals		Call to Discuss Date & Price: 800-338-8158 or 641-754-3771
2711 Breakthrough Leadership in Safety for the Chemical Process Industry		Call to Discuss Date & Price: 800-338-8158 or 641-754-3771
2720 PSM (Process Safety Management) Fundamentals	\$ 600	St. Louis, MO or your location Call to Schedule: 512-834-7689
2722 OSHA 10 Hour General Industry Outreach	\$ 300	St. Louis, MO or your location Call to Schedule: 512-834-7689
2724 Facilitating HazOps	\$1,100	St. Louis, MO or your location Call to Schedule: 512-834-7689
2725 Fault Tree Analysis	\$ 600	St. Louis, MO or your location Call to Schedule: 512-834-7689
2726 Risk Assessment -Off-Site Consequences	\$ 600	St. Louis, MO or your location Call to Schedule: 512-834-7689
2727 Layers of Protection Analysis	\$ 600	St. Louis, MO or your location Call to Schedule: 512-834-7689
2728 Incident Analysis	\$ 600	St. Louis, MO or your location Call to Schedule: 512-834-7689
2729 P&ID Preparation	\$ 600	St. Louis, MO or your location Call to Schedule: 512-834-7689
2730 Safety Engineering Overview	\$1,100	St. Louis, MO or your location Call to Schedule: 512-834-7689
2731 Safety Engineering	\$2,200	St. Louis, MO or your location Call to Schedule: 512-834-7689
BSE101 Elearning: Safety Engineering Overview	\$ 450	Call to Discuss Date & Price: 800-338-8158 or 641-754-3771
BSE201 Elearning: Safety Engineering	\$ 750	Call to Discuss Date & Price: 800-338-8158 or 641-754-3771

### Packaged Training Products

For a complete listing of packaged training modules and pricing reference our website at [www.emersonprocess.com/education](http://www.emersonprocess.com/education). Prices are subject to change. Order cannot be filled without providing a FULL shipping address, including a contact name and phone number for processing the shipment and receipt of the package at customer site.

#### Process Control & Measurement (pages: 16-19, 48-58) Phone - NA Toll Free: 800-338-8158 Phone - Elsewhere: 641-754-3771

Fundamentals of Process Control	\$1,275	CEUs: 2.5	Part #: D750152X012
Advanced Process Control	\$1,050	CEUs: 2.0	Part #: D750108X012
Fundamentals of Process Measurement	\$1,050	CEUs: 2.0	Part #: D750310X012

#### Control Valves (pages: 34-40) Phone - NA Toll Free: 800-338-8158 Phone - Elsewhere: 641-754-3771

Fundamentals of Control Valve Engineering	\$3,225	CEUs: 7.0	Part #: D750028X012
Control Valve & Actuator Maintenance	\$1,275	CEUs: 2.5	Part #: D750070X012
Fundamentals of Control Valve Positioners	\$ 750	CEUs: 1.5	Part #: D750096X012

#### Pressure Regulators (page: 65) Phone - NA Toll Free: 800-338-8158 Phone - Elsewhere: 641-754-3771

Pressure Regulator Technology	\$1,875	CEUs: 4.0	Part #: D750045X012
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#### DeltaV™ (pages: 70-76) Phone - NA Toll Free: 800-338-8158 Phone - Elsewhere: 641-754-3771

##### DeltaV Version 7.4 Continuous Historian Tutorial Part Number: D750508X012

This tutorial is intended for those individuals who have attended DeltaV course 7009 using Version 7.3 or prior release. Materials covered within version 7.4 include: - Introduction to the DeltaV Continuous Historian; Configuration of the Continuous Historian; Continuous Historian Architecture; Continuous Historian Administration; Converting from legacy to the New Continuous Historian; DeltaV Reporter; Continuous Historian Troubleshooting

#### PROVOX® FST Training Aids - FSTeacher Phone - NA Toll Free: 800-338-8158 Phone - Elsewhere: 641-754-3771

**FST User Pocketbook** - This pocketable reference for writing FST's includes in-depth explanations and examples for each instruction.

Part #: D750192X012 Quantities of 1-4 - \$ 19.95 Quantities of 5-9 - \$14.95 Quantities of 10 or more - \$10.95

**FSTeacher Emulation Software** This package teaches students how to effectively use the PROVOX control language to implement control schemes. This program is for process control engineers who specify and configure PROVOX console-based systems for batch and continuous control, and also for technicians who maintain PROVOX control system. FSTeacher is a software emulation package of the PROVOX FST control language using Microsoft Excel spreadsheet program operating under Microsoft Windows. It can be used as a learning tool and as an FST development tool. This emulation package is also the basis for course number 5375, Mastering PROVOX FST's. Part #: D750189X012 \$ 400

### Ordering Information For Packaged Training Above

For details, visit: [www.emersonprocess.com/education](http://www.emersonprocess.com/education) Course Offerings: Packaged Training

To order, any Packaged Training products, contact your local Emerson Process Management Sales Representative & reference course name & part number.

For More Information: Phone - NA Toll Free: 800-338-8158 Phone - Elsewhere: 641-754-3771 Fax: 641-754-3431

E-mail: [education@emersonprocess.com](mailto:education@emersonprocess.com)

**Notes:** Individual Units and Modules may be purchased separately. Many other trade and skill courses also available from Educational Services and our partner - Coastal Skills Training.

#### Machinery Health™ Management Training (pages: 22-32) Phone - NA Toll Free: 800-675-4726 Phone - Elsewhere: 865-675-2400

Introduction to Vibration Analysis, #ATV-6: \$505

Gear Analysis, #ATV-8: \$505

Resonance, #ATV-10: \$505

Rolling Element Bearing Analysis: Defect Detection, #ATV-4: \$505; Severity Determination, #ATV-5: \$505

Introduction to Infrared Thermography, #ATV-13: \$505

Detailed Waveform Analysis, #ATV-9: \$505

Detailed Phase Analysis, #ATV-16: \$505

Fundamentals of Alignment, #ATV-14: \$505

Balancing: Fundamentals of Balancing, #ATV-17: \$505; Industrial Application of Balancing, #ATV-18: \$505

Phone - 800-675-4726 or 865-675-2400

Oil Analysis: Keys to Successful Condition Monitoring, #ATV-15: \$505 For more information, visit: [www.mhm.assetweb.com](http://www.mhm.assetweb.com)