DeltaV™

LEARNINGPATH

To enroll in DeltaV courses or for more information, please call:
800-338-8158 or 641-754-3771

Engineers & System Administrators

Core Competencies

- **Continuous: 7009, DeltaV Implementation I**
- **Batch: 7009, DeltaV Implementation I and 7016, DeltaV Systems Batch Implementation**
- **Administrators:**
  7024 DeltaV Systems Administration XP/Server 2003

Additional Competencies

- **7201, DeltaV Advanced and 7202, DeltaV Model Predictive Control**
- **7034, Communication Bus Interface with DeltaV**
- **7032, FIELDBUS Systems & Devices**
- **7018, DeltaV Hardware & Troubleshooting**
- **7040, OPC**
- **7041, Simulation with Mimic**
- **7020, AMS Device Manager**
- **7021, AMS Device Manager with Rosemount HART**
- **7035, Practical Implementation of FOUNDATION™ fieldbus**
- **7017, DeltaV Implementation II**
- **7025, DeltaV Advanced Graphics**
- **7045, Alarm Management with DeltaV Analyze**
- **7305, DeltaV SIS Implementation**
- **EV93, DeltaV 9.3 Features**

Managers

Core Competencies

- **7101, PlantWeb/DeltaV Introduction**
- **7301, DeltaV SIS Overview**

Plant Operators

Core Competencies

- **Continuous: 7012, DeltaV Operate Interface for Continuous Control or e7012, Elearning: DeltaV Operator Interface for Continuous Control**
- **Batch: 7014, DeltaV Operator Interface for Batch**
- **DeltaV Operator Training Solutions (OTS)**

Maintenance Technicians

Core Competencies

- **7018, DeltaV Hardware & Troubleshooting**

Additional Competencies

- **Continuous: 7009, DeltaV Implementation I**
- **Batch: 7016, DeltaV Systems Batch Implementation**
- **7030, Fieldbus Devices**
- **Buses: 7032, FIELDBUS Systems & Devices or 7034, Communication Bus Interface with DeltaV**
- **5590, Power and Grounding for Electronic Systems**
- **7303, DeltaV Safety Instrumented Systems (SIS) Maintenance**

DeltaV Implementation I

Course 7009 CEUs: 3.2

This course is designed for individuals responsible for configuring and commissioning a DeltaV system.

Overview

This 4-1/2 day course covers a complete DeltaV system implementation. 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.

Prerequisites

Microsoft Windows experience. It is recommended that prospective attendees new to process Automation Systems attend PlantWeb/DeltaV Introduction, Course 7101, or DeltaV Hardware & Troubleshooting, Course 7018

Topics

- System Overview
- Explorer
- Control Modules
- Control Studio
- Motor Control
- Regulatory Control
- WorkSpace
- System Operation
- Alarms & Process History View
- Sequential Function Charts
- Phase Logic Modules
- Security

Price $2,750

Location	Start Dates 2009
Austin, TX	1/5, 1/12, 1/19, 1/26, 2/2, 2/9, 2/16, 2/23, 3/2, 3/9, 3/16, 3/23, 3/30, 4/13, 4/20, 4/27, 5/4, 5/11, 5/18, 6/1, 6/8, 6/15, 6/22, 7/6, 7/13, 7/20, 7/27, 8/3, 8/10, 8/17, 8/31, 9/14, 9/21, 9/28, 10/5, 10/12, 10/19, 10/26, 11/2, 11/9, 11/16, 11/30, 12/7, 12/14
Edmonton, AB	1/12, 2/9, 3/9, 4/13, 5/25, 6/22, 7/20, 8/17, 9/14, 10/26, 11/16, 12/7
Fort McMurray, AB	3/2, 6/8, 8/31, 11/30

DeltaV Systems Batch Implementation

Course 7016 CEUs: 3.2

This course is designed for individuals responsible for configuring and commissioning DeltaV Batch software.

Overview
This 4-1/2 day 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 and Unit Procedures. Equipment entities will also be configured including, Units modules and Process cells.

Prerequisites Course 7009, DeltaV Implementation I

Topics
- Batch Overview
- Unit Phase
- Alias Definition
- Unit Module
- Process Cell
- Class Based Control Modules
- Class Based Equipment Modules
- Operation
- Unit Procedure
- Procedure
- Unit Aliasing

Price $2,750

Location	Start Dates 2009
Austin, TX	1/19, 2/16, 3/23, 4/27, 6/1, 7/20, 8/24, 9/28, 11/2, 12/7

DeltaV Implementation II

Course 7017 CEUs: 3.2

This sequential course is for users that have completed introductory courses.

Overview
This 4-1/2 day course is for process control engineers responsible for configuring the DeltaV system. Advanced topics will be covered including displays, function blocks, and configuration tips.

Prerequisites
Course 7009, DeltaV Implementation I

Topics
- Function Block Structure
- HART Inputs and Outputs
- Analog Control Blocks
- DeltaV Tune with InSight
- Device Control Options
- Class Based Control Modules
- Expressions
- Unit Alarms
- Multi-Dimensional (Array Parameter)
- Equipment Modules
- Display Environment
- Custom Faceplates
- Custom Dynamos

Price $2,750

Location	Start Dates 2009
Austin, TX	1/26, 2/23, 3/16, 4/13, 5/11, 6/8, 7/6, 8/17, 9/14, 10/12, 11/9, 11/30
Edmonton, AB	1/19, 3/23, 4/27, 7/27, 9/21, 11/9

DeltaV Advanced Graphics

Course 7025 CEUs: 3.2

Overview
This 4-1/2 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, course 7009 and DeltaV Implementation II, course 7017.

Prerequisites
Course 7009, DeltaV Implementation I

Topics
- Visual Basic Primer
- Forms
- Modules
- Schedules
- User Preferences
- Picture Sizing
- Environment Customization
- Custom Faceplates
- Function Block Faceplates
- FRS Functions
- Pop Up Menus
- Color Threshold Tables
- Custom Dynamos
- Tag Groups
- Key Macro Editor

Price $2,750

Location	Start Dates 2009
Austin, TX	2/2, 5/4, 7/27, 10/5, 12/14
Edmonton, AB	2/2, 6/15, 9/21, 12/14

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Alarm Management with DeltaV Analyze

Course 7045 CEUs: 1.8

This course is for personnel who will be involved in the design and implementation of Alarm Management programs.

Overview

This 2-1/2 day hands-on instructor led course 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 a working knowledge of how DeltaV Analyze is used for alarm analysis, maintenance, and continuous improvement. Students may bring their event chronicle file to class for analysis.

Prerequisites

7009, DeltaV Implementation I

Topics

- Alarm Management Overview
- Standards and Legislation
- Alarms and Profitability
- Alarm Management Phases
- Alarm Philosophy
- Alarm Management Assessment
- DeltaV Alarming
- Concepts and Tools
- DeltaV Analyze Installation
- Alarm Analysis using DeltaV Analyze
- Alarm Rationalization
- Implementation
- Maintenance and Continuous Improvement

Price $1,600

Location
Austin, TX

Start Dates 2009
5/12, 10/6

DeltaV Systems Administration XP/Server 2003

Course 7024 CEUs: 3.2

Overview

This course is designed for system administrators that will be installing, commissioning and implementing a DeltaV system running on the XP operating system and Windows Server 2003. The course is 4-1/2 days in length.

Prerequisites

Course 7009, DeltaV Implementation I,or Course 7018, DeltaV Hardware and Troubleshooting

Topics

- Overview/Review of System Components and Topologies
- Installation Checklist of the XP Operating System
- Installation of the DeltaV Software Components
- DeltaV Control Networks
- DeltaV Domains and Workgroups
- Users and Securities
- Upgrading Hardware and Software
- Backup and Restore Procedures
- Importing/Exporting
- Process Historian Administration
- DeltaV Zones

Price $2,750

Location
Austin, TX

Start Dates 2009
1/19, 3/2, 4/20, 6/8, 7/27, 9/14, 10/26, 12/7

DeltaV Advanced Control

Course 7201 CEUs: 3.2

Overview

This 4-1/2 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.

Prerequisites

Courses 7101, PlantWeb/DeltaV Intro. or 7009, DeltaV Implementation I or equivalent field experience.

Topics

- The Control Foundation in DeltaV
  - Traditional Tools e.g. Override, Cascade, Ratio
  - Improvements Provided by Advanced Control
- DeltaV Inspect with InSight
  - Detection of Abnormal Conditions
  - Variability Index, Utilization
- DeltaV Tune with InSight
  - Tuning Response
  - Expert Options
  - Process Learning
  - Modules
- DeltaV Fuzzy
  - Principles 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

Price $2,850

Location
Austin, TX

Start Dates 2009
5/18, 10/19

DeltaV Model Predictive Control

Course 7202 CEUs: 2.1

Overview
This 3-day course is designed for process and control engineers who are applying DeltaV Predict and Predict Pro. It provides practical examples of how to determine the benefits of MPC application and how this control may be used to meet specific application requirements. Students will gain hands on experience through lab exercises based on realistic dynamic process simulations.

Prerequisites
7201 DeltaV Advanced Control

Topics
- How to Justify an MPC Project
  - Evaluating the Cost of Process Variation
  - Estimating the Reduction in Variation that is Possible Using MPC
  - Calculating the Benefit of Maximizing Throughput When Plant Production is Restricted by Input Limits or Measurable Constraint
- Meeting Application Requirements
  - Insuring Disturbance Inputs are Independent of Other Process Inputs
  - Meeting Control Requirements when the Response Times are Very Different
  - Understanding the Design and Testing of an Integrating Process
- Tailoring Control Performance
  - Placing more Emphasis on Selected Control or Constraint Parameters
  - Improving Control Performance when the Process is Deadtime Dominant
  - Compensating for Large Changes in Process Gain or Dynamics
  - Minimizing the Impact of Process Noise on Control Performance
- Predict Pro- Applying Predict Pro on Large Processes; - Optimizing with Predict Pro

Price $2,150

Location	Start Dates 2009
Austin, TX	8/3

Simulation with Mimic

Course 7041 CEUs: 2.5

This course is for process control engineers who specify, configure and test configurations of DeltaV. Upon course completion, engineers will have the working knowledge of mimic to effectively operate and test their configuration in a simulated environment prior to system start-up. This course is for engineers responsible for factory acceptance testing. This course is also beneficial for engineers or trainers assisting in training operators.

Overview This 3-1/2 day course consists of lectures and workshops that present basic product functionality, installation, simulation, configuration/programming and use. Upon completion of the course, students will:
- generate mimic I/O, Tieback and Tag files automatically from DeltaV configuration
- initiate/terminate communications with DeltaV
- perform mimic/DeltaV communications diagnostics
- assign dynamic personalities to Discrete Device and Loops Tiebacks
- enhance simulations by writing mimic calculations
- write simulation scenarios for operator trainings
- perform configuration testing with manipulate application
- commission vim's.virtual I/O modules
- understand Fieldbus and Devicenet I/O emulation with mimic

Prerequisites
Students should have completed Course 7009. Students should also be proficient with Windows.

Topics
- Overview
- Commissioning the VIM
- Manipulate Application
- Tag Application
- Tieback Application
- User Calculations
- Merge Utility and Flow Paths
- Bus I/O
- DeltaV Simulate OPC
- Operate Training Manager
- Installation and Troubleshooting

Price $2,200

Location	Start Dates 2009
Austin, TX	3/23, 7/13, 10/26

DeltaV Operate for PROVOX

Course 7060 CEUs: 2.8

This course is designed for process control engineers and senior maintenance technicians, using the DeltaV Operate for PROVOX console with either SR90 or SRX Controller and using ENVOX to configure the controller and console as well as creating the console displays.

Overview
This 4-day course will cover the complete hardware and software implementation for the DeltaV Operate for PROVOX console. Upon completion of this course the student will be able to install the hardware and define system capabilities, define nodes configure the system for continuous control, operate the system and define users and security.

Prerequisites
Any one of the following courses: 5360, 5370 or 5390.

Topics
- DeltaV Operate for PROVOX Console Hardware and Software Overview
- DeltaV Operate for PROVOX Common Console Configuration Using ENVOX
- DeltaV Architecture and Data Structure
- Operating the DeletaV Operate for PROVOX
- Display Configuration
- User Definition and Privileges
- Event Journal
- Software Installation Guidelines
- Hardware Installation Guidelines

Price $2,450

Location	Start Dates 2009
Austin, TX	5/11

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DeltaV Implementation for System Integrators

Course 7070 CEUs: 2.8

Overview
This 4-day course is designed for System Integrators configuring and commissioning DeltaV automation systems in a continuous environment. This course covers the implementation of a DeltaV system used in continuous processes. Upon completion of this course the student will be able to define system capabilities, define nodes, configure continuous and sequential control strategies, operate the system & define users & security.

Prerequisites Windows NT 4.0 experience, Windows 95/98 or XP experience.

Topics

• System Overview; • Explorer; • Control Modules; • Control Studio • Motor Control; • Regulatory Control; • Workspace; • System Operation; • Alarms & Process History View; • Sequential Function Charts; • Phase Logic; • Security

Price $3,950

Location	Start Dates 2009
Austin, TX	4/6, 6/29, 8/31

DeltaV Batch Implementation for System Integrators

Course 7071 CEU's: 2.8

Overview
This 4-day course is for System Integrators configuring/commissioning DeltaV automation systems in a batch environment. It covers the implementation of a 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: Unit modules and Process cells.

Prerequisites Course 7070

Topics

• Batch Overview; • Unit Phase; • Alias Definition; • Unit Module; • Process Cell • Operation; • Unit Procedure; • Procedure • Unit Aliasing

Price $3,950

Location	Start Dates 2009
Austin, TX	4/13, 9/8

DeltaV Hardware & Troubleshooting

Course 7018 CEUs: 2.8

This 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.

Overview
The 4-day 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.

For students with systems that include bus technologies, courses 7030, 7032 or 7034 are recommended.

Prerequisites
Windows experience.

Topics

- DeltaV Overview
- Controllers
- I/O Cards
- Carriers
- Field Power
- System Power Supplies
- Control Network
- Workstations
- Diagnostics
- Troubleshooting
- DeltaV Operate Overview
- Interpreting the Event Journal and Alarm List

Price $2,550

Location	Start Dates 2009
Austin, TX	1/12, 2/9, 3/9, 3/30, 4/20, 5/18, 6/15, 7/13, 8/3, 8/31, 9/21, 10/19, 11/16, 12/14
Edmonton, AB	1/26, 3/16, 4/6, 6/8, 8/10, 9/8, 10/5, 11/23
Fort McMurray, AB	2/23, 5/11, 7/6, 12/7

Power and Grounding for Electronic Systems

Course 5590 CEUs: 1.4

This 2-day course is designed for personnel involved with the planning, installation and maintenance of DeltaV digital automation system and provides essential knowledge regarding the power and grounding system for DeltaV equipment.

Overview
This course focuses on specific power and grounding requirements of a control system. You will learn:

- how to conduct site verifications
- how to audit using "hands-on"testing labs
- to detect power and grounding problems on existing sites

Prerequisites
A working knowledge of electronics and AC power basics is suggested.

Topics

- Review of Power Basics
- Power System Measurements
- Low Voltage Power Systems
- Power System Grounding
- Earthing vs. Grounding
- Connection to Earth
- Equipment Grounding
- Code Requirements
- Building Power Distribution
- Feeders and Branch Circuits
- Separately Derived Systems
- Power & Grounding for the DeltaV System
- Single Point Grounding
- Isolated Ground Installations
- Dedicated Circuits
- DC Grounding
- Verifying New Installations
- Power Quality Problems
- Applying Power Conditioning
- SIS Power and Grounding Installation

Price $1,450

Location	Start Dates 2009
Austin, TX	2/10, 7/28, 11/17

DeltaV Operator Interface for Continuous Control

Course 7012 CEUs: 1.4

This course is for operators, supervisors and managers responsible for the operation of continuous processes using DeltaV system.

Overview
This 2-day course uses lectures and hands-on workshops to provide an in-depth overview on operating the DeltaV System. Students who complete this course will:

- access operator displays
- manipulate various control module operating parameters to operate the process
- respond to process alarms
- monitor process performance
- view real-time and historical trend data

Topics

- System Overview
- Accessing DeltaV Operate Window, Menus Displays and Directories
- Discrete and Analog Control Module Operation
- Accessing Alarm Displays/Alarm Handling
- Motor Control Module Operation
- Regulatory/Cascade Control Module Operation
- Accessing Real-time/Historical Trend Data
- Unit Alarms
- Sequential Function Chart Operation
- Phase Logic Modules

Price/Location/Start Date: Call to Discuss

eLearning: DeltaV Operator Interface for Continuous Control

Course e7012 CEUs: 1.42

Audience
Operators, supervisors and managers responsible for the operation of continuous processes using the DeltaV system. This is an interactive on-line course with DeltaV screens including audio presentations, demonstrations, practice sessions, workshops, quizzes and a final examination. The average time to complete the course is 12 hours.

Course Preview is Available On-Line:
www.emersonprocess.com/education/elearning_skills.asp

Price $550

DeltaV Operator Interface for Batch

Course 7014 CEUs: 1.8

This course is for operators, supervisors, and managers responsible for the operation of batch processes using DeltaV system.

Overview
This 2-1/2 day course uses lectures and hands-on workshops to provide an in-depth overview on operating the DeltaV System. It includes all content in course 7012 plus students will:

- understand basic batch terminology
- manipulate Unit Module parameters
- access the Batch Operator Interface
- run procedures
- review batch history data

Topics

- System Overview
- Accessing DeltaV Operate
- Window, Menus Displays and Directories
- Discrete, Analog, Regulatory and Cascade Control Module Operation
- Motor Control Module Operation
- Accessing Alarm Displays/Alarm Handling
- Accessing Real-time/Historical Trend Data
- Accessing Process History View
- Sequential Function Chart Operation
- Phase and Recipe Controls
- Batch Operator Interface
- Batch Historian
- Campaign Manager

Price/Location/Start Date: Call to Discuss

eLearning: DeltaV 9.3 Features

Course EV93 CEUs: 0.5

Overview
This five hour technical training session covers the DeltaV Version 9.3 new features. The tutorial is intended for individuals familiar with DeltaV Version 8.4 and prior. The course covers 36 new features including why they were added, configuration, licensing, maintenance, and usability. A brief listing of the topics include:

- Insight
- Simulate Playback
- PlantWeb Enhancements
- Zones
- OPC Enhancements
- Batch Enhancement

Price $200

DeltaV Operator Training Simulation (OTS)

Overview
DeltaV Operator Training Simulation (OTS) is an engineered, hands-on, process-specific learning environment designed to up-skill our customers' operations workforce. DeltaV OTS exposes operators to what they will experience in their actual control room. This enables operations personnel to gain experience in an off-line, non-intrusive environment. Operators will learn DeltaV operating concepts while learning their actual process in preparation to effectively handle incidents or process upsets. The ability to practice how to handle potential incidents in a simulation environment is invaluable.

The OTS training solution is not only key to preparing operations personnel prior to the start-up of new automation projects. It's an ongoing tool to train future operators, a great refresher tool and a platform for more advanced training for current operators.

DeltaV OTS includes the following key deliverables:

- Self-Guided Custom Curriculum Based on the Customer's Configuration and actual displays
- DeltaV Training Simulators that include both hardware and software that operate the customer configuration in a simulated environment
- Student Testing that includes realistic failure scenarios that record actual operator responses

Key tangible savings and benefits include:

- Quicker, Smoother Start-Ups
- Reduced Operator Error
- Product Loss Reduction/Elimination
- Improved Product Quality
- Regulatory Violation Reduction/Elimination
- Reduce Incident Reporting
- Operator Acceptance and Endorsement to Change Management

To discuss OTS and simulation contact us at OTS@EmersonProcess.com

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For additional contact information refer to the appropriate contact on page 119. Updated dates & locations are available on our website at www.emersonprocess.com/education.

DeltaV SIS Overview

Course 7301 CEUs: 2.1

This course is for project managers, supervisors and team members who provide supporting roles on a Safety Instrumented System Project.

Overview
This 3-day course is a hands-on instructor led course. The course covers the safe, efficient, and reliable architecture of a smart SIS including Rosemount SIS instruments, DeltaV SIS and Fisher SIS Digital Valve Controllers. Students will gain a working knowledge in Safety Instrumented Function (SIF) design, implementation, and Operations.

Topics
- The Safety Lifecycle
- PlantWeb/DeltaV Overview
- DeltaV SIS Overview
- DeltaV SIS Hardware Architecture
- DeltaV SIS Software Architecture
- SIFs in DeltaV
- Rosemount SIS Instruments
- Fisher SIS Digital Valve Controllers
- DeltaV SIS Operations

Price $1,950

Location	Start Dates 2009
Austin, TX	6/1

DeltaV Safety Instrumented System (SIS) Maintenance

Course 7303 CEUs: 2.1

This course is for individuals responsible for maintaining a DeltaV SIS.

Overview
This 3-day course is a hands-on instructor led course. The course covers the architecture of the DeltaV SIS including Rosemount SIS instruments and Fisher SIS Digital Valve Controllers. Students will gain a working knowledge of the hardware and software allowing them to troubleshoot and maintain the system.

Prerequisites
Course 7018, DeltaV Hardware and Troubleshooting, is a requirement.

Topics
- Safety Lifecycle
- DeltaV SIS Overview
- DeltaV SIS Hardware
- Safety Instrumented Functions
- Rosemount SIS Instruments
- AMS Device Manager
- Fisher SIS Digital Valve Controller
- SISNet Repeaters

Price $2,100

Location	Start Dates 2009
Austin, TX	7/6
Edmonton, AB	9/9

DeltaV SIS Implementation

Course 7305 CEUs: 3.2

This course is for personnel who design, implement, commission and service DeltaV SIS.

Overview
This 4-1/2 day course is a hands-on instructor led course. The course covers complete DeltaV SIS Implementation including hardware and software architecture. Students will be able to design a DeltaV SIS Network and Safety Instrumented Functions (SIFs). Additionally, students will be able to configure smart SIS instruments and their associated alerts, including partial stroke testing.

Prerequisites
Course 7009 is a requirement. Recommend IEC 61511 knowledge.

Topics
- DeltaV SIS Overview
- DeltaV SIS Hardware
- Configuring SIFs in DeltaV
- Rosemount SIS Instruments
- AMS Device Manager
- Fisher SIS Digital Valve Controller
- SISNet Repeaters
- DeltaV SIS Security
- DeltaV Version Control

Price $2,750

Location	Start Dates 2009
Austin, TX	2/16, 4/27, 6/22, 8/17, 10/12, 12/14
Edmonton, AB	3/9, 9/14

DeltaV Version 7.4 Continuous Historian Tutorial - CD Format

Overview
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

Minimum System Requirements: Processor: Pentium 200 Ram: 256MB CD-ROM Drive: 8X

Ordering Information: To order please call 800-338-8158 or (641) 754-3771 or e-mail: education@emersonprocess.com
All prices in U.S. Dollars. Applicable state & local tax for the state of delivery must be remitted with payment.
Please allow 2 weeks for delivery. Prices subject to change without notice. A shipping/handling fee is added to all invoices.

Part Number: D750508X012 **Cost:** $ 395