

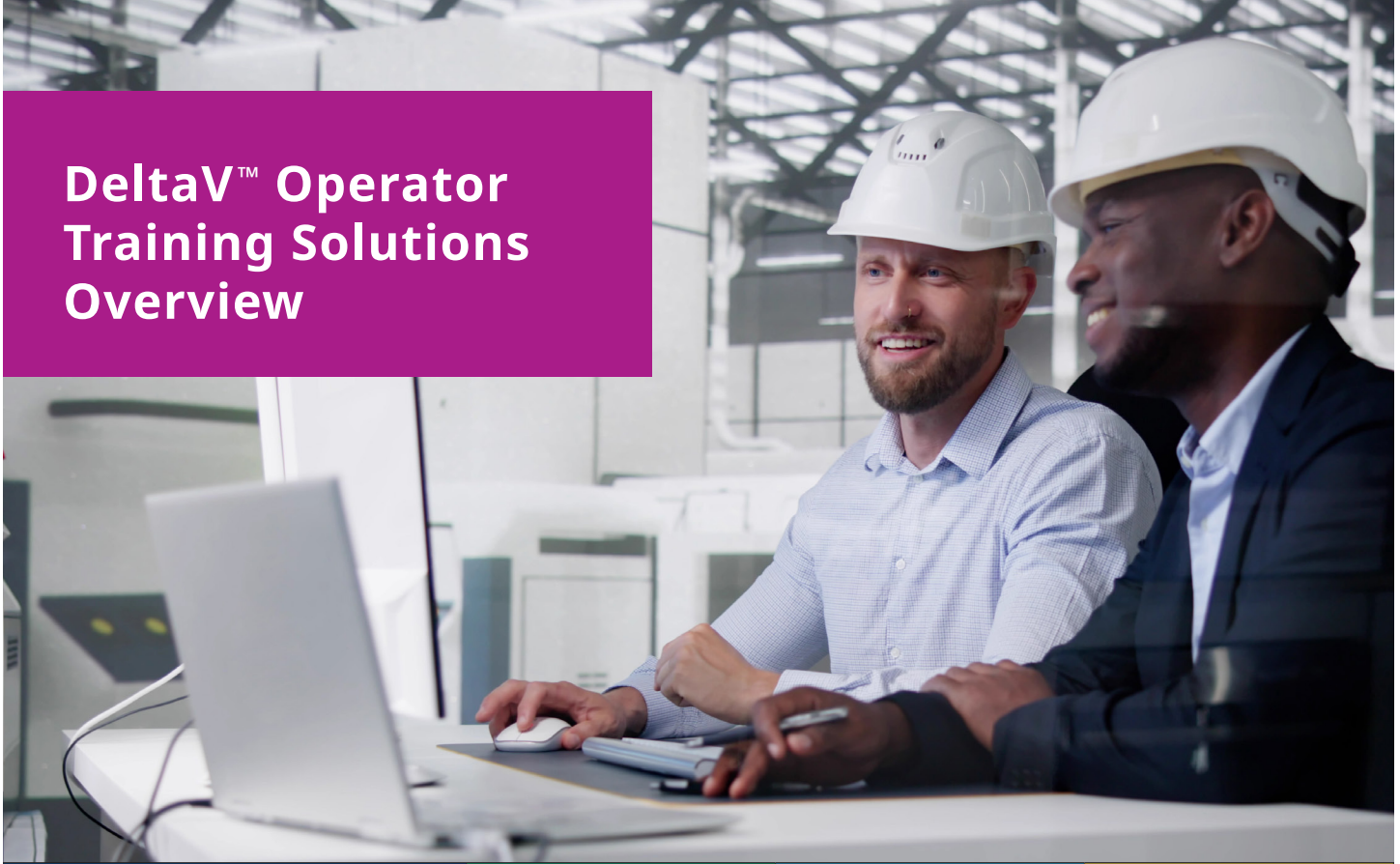


Grow knowledge and competency through experience with operator training.

DeltaV™ Operator Training Solutions
Operator training designed to help ensure project certainty.



DeltaV™ Operator Training Solutions Overview



	DeltaV Operator Training Features	DeltaV Basic Operator Training	DeltaV Essential Operator Training Level 1	DeltaV Essential Operator Training Level 2
Basic Training	Instruction	✓	✓	✓
	Instructor Demonstrations	✓	✓	✓
	Hands-On Workshops	✓	✓	✓
	Knowledge Assessments Quizzes	✓	✓	✓
Custom Courseware & Simulation Models	Customer Specific Courseware		✓	✓
	Mimic Tie-Back Modeling Customer Specific		✓	✓
	Simulated Workshops		✓	✓
	Skills Assessment for Certification		✓	✓
Advanced Courseware with High Fidelity Simulation	Understanding the process abnormalities, malfunctions, and corrective actions			✓
	Scenario based training			✓
	Critical process control, specific equipment handling			✓
	Startup and shutdown process			✓



DeltaV™ Basic Operator Training Solutions

Operator Training: Growing Knowledge And Competency Through Experience

DeltaV™ Basic Operator Training Solution is available in the **traditional classroom** with live instructors and equipment, or in the **virtual classroom environment** with live online instruction and DeltaV distributed control systems (DCS), as well as a new **blended learning environment** that uses state-of-the-art technologies to host training in the cloud.

DeltaV™ – Operator Training For Continuous Operation

Overview

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

- Access operator main displays
- Manipulate various control parameters and operate the process
- Access faceplates and detail displays
- Understand process indications from graphics dynamos
- Monitor and acknowledge different alarm conditions
- Create real-time and historical data charts
- Access historical data and event chronicle

DeltaV – Operator Training For Batch Operation

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 the continuous operation course plus students will:

- Access operator main displays
- Manipulate various control parameters and operate the process
- Access faceplates and detail displays
- Understand process indications from graphics dynamos
- Monitor and acknowledge different alarm conditions
- Create real-time and historical data charts
- Access historical data and event chronicle
- Understand basic batch terminology
- Manipulate Unit Module parameters
- Access different Batch Operator Interfaces
- Run recipe batches
- Review batch history data

Topics

- DeltaV Distributed Control System Overview
- DeltaV Operator Interface
- DeltaV Multi-Monitor Workstations
- The Simulated Process
- Operating Discrete Modules
- Operating Analog Modules
- Alarms and Events
- Motor Control Modules
- Regulatory Control Modules
- DeltaV Trending
- Operating Cascade Loops
- Unit Alarms
- Equipment Modules

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- DeltaV Distributed Control System Overview
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- Motor Control Modules
- Regulatory Control Modules
- DeltaV Trending
- Operating Cascade Loops
- Unit Alarms
- Equipment Modules
- Batch Process Simulation
- Batch Process Overview
- Operating Unit Modules
- Batch Operator Interfaces – DeltaV Operate Procedures
- DeltaV Batch Historian



DeltaV™ Essential Operator Training Solutions

Growing Knowledge and Competency Through Customized Curriculum and Simulation

Operator Training Designed to Help Ensure Project Certainty

The DeltaV™ Essential Operator Training Solution is an affordable and effective training program for your operations personnel. It is a flexible solution that can optionally provide years of training for your workforce via the cloud, without the prohibitive costs of maintaining a training system. DeltaV Essential Operator Training Solution includes instructional materials, customized student curriculum, and workshops all customized to your specific graphics and module types. Student workshops include IO tie-back simulation to demonstrate module functionality and perform workshops.

DeltaV Essential Operator Training Solution is available in the **traditional classroom** with live instructors and equipment, or in the **virtual classroom environment** with live online instruction and DeltaV distributed control systems (DCS), as well as a new **blended learning** environment that uses state-of-the-art technologies to host training in the cloud.

Traditional Classroom Learning Environment (Option 1)

The Traditional Classroom option includes one scheduled course conducted by a certified Emerson Educational Services instructor at the customer site, with DeltaV DCS equipment for up to 12 students. Face-to-face instruction provides the best-in-class practice for student interaction and live instructor assistance. An option to increase the number of students is available.

Virtual Classroom Environment (Option 2)

The Virtual Classroom option includes one scheduled course conducted by a certified Emerson Educational Services instructor live via the internet, with connection to cloud hosted DeltaV DCS equipment for up to 12 students. An option to increase the number of students is available.

Blended Learning Environment (Option 3)

The Blended Learning option includes recorded instruction and demonstrations by a certified Emerson Educational Services instructor. A dedicated cloud-hosted DeltaV system is provided to perform the workshops for each enrolled student. Training and demo videos remain available 24/7 for 6 months after enrollment. Cloud-hosted system access provides 12–16 hours of runtime, which must be used within one month. An option to increase the number of students, and expanded length of access to sessions and DeltaV workstations, is available.



DeltaV™ Essential Operator Training Solutions

Course Length: 2 Days for Continuous Processes; 2.5 Days for Batch Processes

- Fixed Price and Scope (with options available)
- Development Time Required: 6 – 8 weeks for Continuous Processes / 10 – 12 weeks for Batch Processes

Traditional Student Courseware and Books

- Student Objectives by Module
- Student Workbooks to Supplement Instructional Delivery
- Integration of Customer-Specific Graphic and Module Types
- Student Workshops Description and Instructions
- Comprehensive Review of Each Course Module's Topic and Content in an Exam Format
- Electronic Media of Curriculum Provided
- Printed or Electronic Student Manuals

Instructional Deliverable Choices

- Traditional Classroom
 - DeltaV™ DCS sent to the customer site for class to perform workshops and experience hands-on learning practice
- Virtual Classroom
 - DeltaV DCS workstation assigned to each student using Web Conference Meetings to perform workshops and experience hands-on learning practice with a live instructor
- Blended Learning
 - DeltaV DCS workstation assigned to each student in the cloud to perform workshops and experience hands-on learning and practice
 - Training and demo videos remain available 24/7 for 6 months after enrollment. Cloud-hosted system access provides 12–16 hours of runtime, which must be used within one month.
- Additional time optional and annual renewal available

Cost / Duration <ul style="list-style-type: none"> ● 6 to 8 weeks for Continuous Process development ● 10 to 12 weeks for Batch Process development 	Instruction <ul style="list-style-type: none"> ● 2 Day Continuous / 2.5 Day Batch ● Lectures / Demonstrations ● Review Questions ● Final Exam and Student Tracking (Optional)
Courseware <ul style="list-style-type: none"> ● Customer-Specific Modules and Graphics ● Printed or Electronic Manuals ● Electronic Copy 	Simulation <ul style="list-style-type: none"> ● Mimic Tie-Back Model ● Limited Control Modules defined based on the scope ● Up to 4 Display Graphics
Workshops <ul style="list-style-type: none"> ● Analog / Discrete Modules ● Regulatory Loop ● Alarms ● Equipment Modules ● (For Batch Processes Sequencing: One Operation on One Unit) 	Deliverables <ul style="list-style-type: none"> ● Traditional Classroom ● Virtual Classroom ● Blended Learning

DeltaV™ Simulation for Workshops

- Mimic tie-back simulation for identified Control Modules selected from the customer's database, with I/O simulation to demonstrate module functionality and perform workshops. (More modules optional)
- Use of up to 4 graphic displays for continuous processes / 6 for batch processes (Sequencing for equipment modules optional)



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