



DeltaV™ Essential Operator Training Solution

OPERATOR TRAINING: GROWING KNOWLEDGE AND COMPETENCY THROUGH EXPERIENCE

OPERATOR TRAINING DESIGNED TO HELP TO ENSURE PROJECT CERTAINTY

In a project environment where complexity, costs, and change can reduce the certainty of success, you have the power to overcome these challenges. Make training, knowledge transfer, and competency part of the answer.

Skilled personnel solve complex problems, anticipate and eliminate additional costs, as well as accommodate changes so operations run smoothly and consistently. Training drives operational excellence in your facility by fostering the development of talent in your personnel.

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 low fidelity 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, and 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. Optional courses, as well as train-the-trainer assistance, 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 DeltaV DCS equipment for up to 12 students. Optional additional sessions, as well as train-the-trainer assistance, is available for customers that would like to deliver future classes.

BLENDED LEARNING ENVIRONMENT (OPTION 3)

The Blended Learning option includes recorded instruction and demonstrations by a certified Emerson Educational Services instructor. A dedicated DeltaV system is provided for to up to 25 students and via the cloud. The instruction, demonstrations and DeltaV systems are available 24x7 to each student for period of 12 months after activation. 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 — Program Detail

COURSE LENGTH: 2 DAYS FOR CONTINUOUS PROCESSES; 2.5 DAYS FOR BATCH PROCESSES

- Fixed Price and Scope (with options available)
- Development Time Required: 6 Weeks for Continuous Processes / 8 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
- 25 Printed Student Manuals (Optional Manuals Available)

INSTRUCTIONAL DELIVERABLE CHOICES

- Traditional Classroom
- Virtual Classroom
- Blended Learning
- Additional time optional and annual renewal available

DELTA V SIMULATION FOR WORKSHOPS

- Tie-back simulation for up to 50 (Continuous Processes) / 100 (Batch Processes) Control Modules, with one process area module 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 / 8 for batch processes (Sequencing for equipment modules optional)

Cost / Duration <ul style="list-style-type: none"> • Fixed Price and Scope • Six Weeks "Continuous" Development • Eight Weeks "Batch" Development 	Instruction <ul style="list-style-type: none"> • 2 Day Continuous / 2.5 Day Batch • Lectures / Demonstrations • Review Questions • Final Exam & Student Tracking (Optional)
Courseware <ul style="list-style-type: none"> • Customer-Specific Modules & Graphics • 25 Printed Manuals • Electronic Copy 	Simulation <ul style="list-style-type: none"> • Tie-Back Model • Up to 50 Control Modules (> 50 Optional) • Up to 4 Display Graphics (For Batch Processes: 100 Control Modules and 8 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)	Equipment <ul style="list-style-type: none"> • Onsite / Virtual Classroom Access to 12 DeltaV Systems • Blended Classroom Access to 25 DeltaV Virtual Systems

DELTA V WORKSHOPS

- Traditional Classroom
 - DeltaV DCS sent to the customer site for class to perform workshops and experience hands-on learning practice
- Virtual Classroom
 - DeltaV DCS assigned to each student over the internet to perform workshops and experience hands-on learning practice
- Blended Learning
 - DeltaV DCS assigned to each student in the cloud to perform workshops and experience hands-on learning and practice
 - Each student will have access to the DeltaV DCS for one year or up to 24 hours run-time on the DeltaV workstation.

For more information contact your local Emerson Process Management sales office or visit: www.emersonprocess.com/education

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