DeltaV™ Express Operator Training Solution (OTS)

OPERATOR TRAINING: GROW KNOWLEDGE THROUGH EXPERIENCE

OPERATOR TRAINING HELPS ENSURE SUCCESS

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™ Express Operator Training Solution (OTS) is a complete turnkey solution with a fixed scope and a fixed cost. This entry-level dynamic simulation solution includes a process-specific, dynamic simulation-based training platform engineered to provide a fast track, yet long-term, training solution for your operations personnel.

DeltaV Express OTS contains all of the activities of a conventional project, but covers a specific scope of the process with an identical HMI to match your facility. Express OTS includes a customized medium fidelity process model, detailed curriculum courseware, model acceptance and factory acceptance testing activities, design documentation, as well installation and training services. Training in scenarios and malfunctions are included, as are instructor tools for training management.

A FAMILIAR LEARNING ENVIRONMENT

The DeltaV Express OTS HMI environment is identical to your existing or newly configured production system environment. A copy of the system configuration is integrated with the process model. This enables the functionality of the live automation system and the training system to be identical, yet completely non-intrusive. Though focused on a specific scope of the process, the HMI environment can be expanded upon as required and as the process evolves.

DeltaV "native" process simulation — Emerson's Dynamic Simulation build a world for your operators as they learn experientially. It's a world that looks exactly like your production facility, with the identical design and human-machine interface (HMI) as your process automation system.

- Training & Competency Assessment
- Safer & More Efficient Operations
- Faster Commissioning & Start-up
- Secure Test-bed for New Technology
- Efficient Regulatory Compliance

The DeltaV Express OTS is a complete turnkey solution for improved operator performance.

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Process Management

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MORE THAN TRAINING

Throughout the four-month Express OTS schedule, the following key activities are covered:

- Up to 800 DeltaV control modules
- Medium fidelity process model
- Virtualized hardware infrastructure
- Integrated instructor functionality
- 30 malfunctions
- 5 scenarios
- Automated training reports
- Model development
- Model Acceptance Test (MAT), Factory Acceptance Test (FAT), and Site Acceptance Test (SAT)
- Train the trainer
- Documentation

CUSTOMIZED CURRICULUM AND COURSEWARE

The DeltaV Express OTS curriculum and courseware includes process configuration and workshops specific to your processes. DeltaV Express OTS will enable operations personnel to:

- Understand the process and DeltaV controls.
- Manipulate control module parameters to operate the process.
- Rationalize and manage alarms.
- Monitor process performance and optimize control system responses.
- View real-time and historical trends.
- Use best practices for handling abnormal situations.
- Know start-up and shut down procedures.
- Use the training system for development and testing.

Fixed Price		Duration	
$ FIXED +travel and living		**~4** months	
Testing • 5 days MAT • 5 days FAT • 2 days SAT		**Deliverables** • DeltaV process models • DeltaV Virtual Studio • Installation • Training • Documentation	
Instructor Functionality • 30 Malfunctions • 5 Scenarios • Automated training reports		**Multiple Use** • Testing • Development • Training • Other control improvements	

DeltaV Express OTS is an effective platform for training operations personnel.

Personnel skills on DeltaV system operation are verified through hands-on proficiency practice and evaluation of performance to standards. Personnel learn how to respond to demands of initialization, failure scenarios and malfunctions. Training reports are auto-generated for review by the instructor.

TRAINING TOOLS

Your Express OTS package includes a virtualized DeltaV hardware infrastructure which can expanded as required in the future.

The following is included within the fixed cost-fixed scope solution:

- Dell host server
- DeltaV Virtual Studio
- One ProfessionalPLUS station
- One application station
- One operator station
- Dual 24" widescreen monitors
- Keyboard and mouse

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