



CS 3000 and CENTUM VP Operator Training Simulator

Why an Operator Training Simulator?

How to train plant personnel in a safe environment has always been an issue; especially when it comes to running your process. Issues of safety, productivity and employee moral revolve around good training programs. Are your personnel really ready to handle their assigned tasks? Do you have programs that certify their capabilities? Are you able to get new operations personnel performing in “real world” situations without the actual pressure or risk?

To help you meet these objectives Yokogawa offers an affordable and expandable full function operator training simulator (OTS). The base OTS is built around a generic process for both the CS 3000 and Centum VP. The simulator allows operators to become familiar with the basics of the Centum system in a safe and secure environment without affecting your actual process.

To get the operator closer to the “real world” the generic process can be expanded with your actual project/process on a control drawing or graphic basis.

Now you can create a variety of process scenarios that the operators can repeat; you can track their progression. Make certification programs around these scenarios. This even allows your veteran operators to see and respond to process events they may never have experienced.

What is included in the OTS?

Each basic/starter OTS setup comes with a pre-loaded Centum VP or CS 3000 system and process plus the OTS instructor station to simulate the process dynamics.

- This price includes the operator training simulator (hardware and software) and HMI hardware.
- Appropriate Yokogawa software licenses for the starter OTS.
- Centum VP or CS 3000 operation screens and selected process plus **operation guidebook** for the process.
 - Self guided
 - Benchmarking capabilities
 - Instructor guidance manual provided
- Imbedded CBT modules for instrument faceplate and control program functionalities.
- The OTS also has predefined “**problem**” **buttons** your instructor selects to create process situations for the operator.
- You can select a level of “**process noise**” for realistic simulations and loop responses.

Value Drivers for Operations

How can the OTS help make more competent personnel?

- Train new operators on your process in a safe environment
- Create a certification program for all operations
- You can expand the OTS capabilities, with your project, as your budgets allow.
- Performance and knowledge based instruction to ensure your personnel maximize their training experience.
- Induce pre-defined process upsets to challenge your operators
- Training on your site; scheduled around your shifts



Value Drivers for Operations

- Continuous, scheduled training to accommodate changing personnel roles
- Cross train existing personnel for greater staffing flexibility
- Scheduled refresher training for current employees
- Introduce new control system to operations as the project is being created
 - Minimize new technology shock

Value Drivers for Engineers

How can the OTS help my engineering staff?

- Test control programs and interlocks before loading to the live process.
- The OTS capability to create “process noise” makes it a loop tuning simulator for techs and engineers.
- Additional personnel to test project during “Factory Acceptance Test”

ROI Opportunities

The bottom line; how can the operator training simulator help my plant?

- Maximize productivity
- Minimize waste
- Boost quality
- Increase profits
- Increase employee moral