

Techniques for Applied Process Control Training





HEAR - SEE - DO

Our workshop methodology is designed to fully engage participants in the examination of real-world process control challenges. By reinforcing traditional lectures with demonstrations and workshop exercises, we empower you to apply innovative techniques immediately and with confidence.

Instructor Led - Virtual Training

A virtual classroom with integrated cloud-based labs that allow you to connect to the most complex hands-on training – remotely.

To Register– Please Contact:

sales@controlstation.com

Training Agenda

Day One

Lecture: Fundamentals of Process Dynamics and Control

Demo: Modeling Process Dynamics Using Loop-Pro

Exercise: Exploring Dynamics of the Gravity-Drained Tanks

Lecture: Proportional Control

Demo: Implementation of P-Only Controllers

Exercise: P-Only Control of Tank Level

Lecture: Integral Action and PI Control

Exercise: Hazards of Tuning PI Controllers by Trial and Error

Day Three

Lecture: Day One Review

Lecture: Advanced Process Modeling and Adaptive Control

Demo: Control of Heat Exchanger using Custom Process

Exercise: Modeling and Simulation of Single Loop Processes

Lecture: Dynamics of Non-Self Regulating (Integrating) Processes

Demo: Controlling a Non-Self Regulating (Integrating) Custom Process

Exercise: Modeling and Control of the Pumped Tank Process

Day Two

Lecture: Approach to Controller Design Using Design Tools

Exercise: PI Control of Heat Exchanger Temperature

Lecture: Controller Performance Criteria

Demo: Adaptive PI Control of Nonlinear Processes

Lecture: Derivative Mode and PID Control

Demo: PID Control of Tank Level

Exercise: PID Control of Heat Exchanger Temperature

Lecture: PID Control with Derivative Filter

Demo: PID with Filter Control of Heat Exchanger Temperature

Exercise: PID with Filter and Control of the Multi-Tanks Process

Day Four

Lecture: Cascade Control

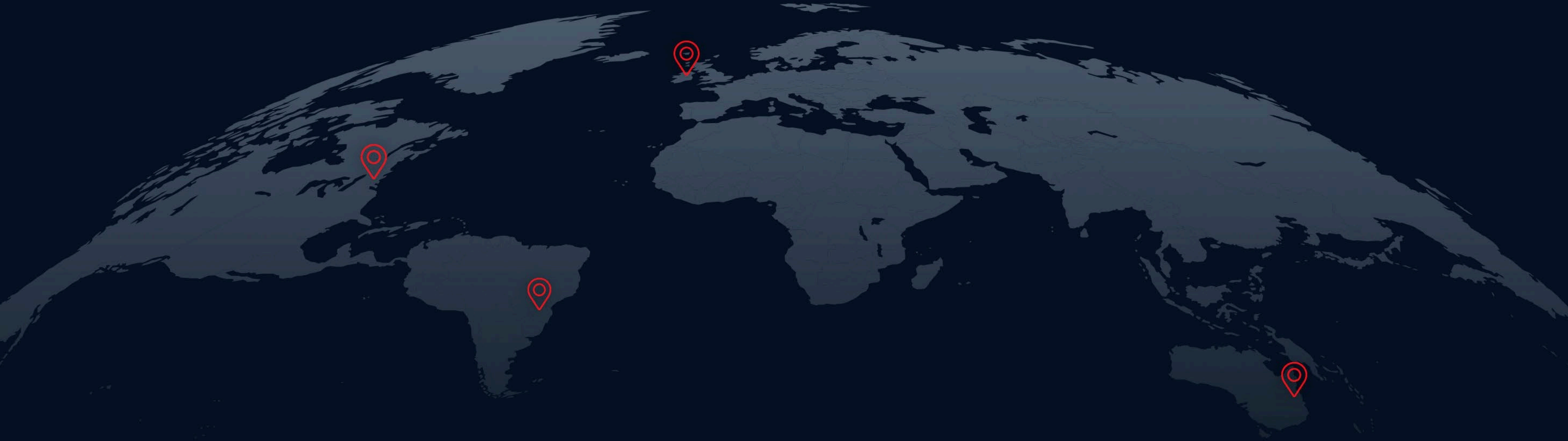
Demo: Single Loop Control of the Jacketed Reactor

Exercise: Cascade Control of the Jacketed Reactor

Lecture: Feed-Forward Control

Demo: Feed-Forward Control of Ideal Processes

Exercise: Feed-Forward Control of the Jacketed Reactor



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