


DURATION
 ½ day

LEVEL
 Foundation

FORMAT
 On-site classroom · virtual instructor-led

LANGUAGE
 English

MAX. PARTICIPANTS
 16

½ day
 hands-on

3
 loops assessed and retuned

Admin
 module for IT owners

Overview

A short, hands-on course that takes a control engineer from installation to a retuned loop: connecting to the historian, importing the loop inventory, running the plant-wide loop assessment, reading the KPIs and valve diagnostics, identifying a process model from step or closed-loop data and calculating IMC/lambda tuning with a documented change record. Administrators cover historian connections, DCS tag mapping and user roles.

Learning outcomes

- Configure historian and DCS connections and import the loop inventory
- Run the plant-wide loop assessment and rank loops by performance and impact
- Interpret loop KPIs: oscillation, variability, saturation and stiction
- Identify a process model from historical or step-test data
- Calculate and document IMC/lambda tuning and simulate the response
- Administer users, tag mapping and assessment schedules

Who should attend

Control and instrument engineers, process control specialists, console supervisors and administrators who will use or manage CeraPID

Course outline

SESSION 1

Installation and editions · historian and DCS connections · loop inventory and tag mapping · plant-wide assessment and KPI dashboard · valve diagnostics and stiction detection

SESSION 2

Model identification from step and closed-loop data · IMC/lambda tuning and simulation · tuning reports and change records · export to MOC · administration · Q&A on participants' own loops

Standards referenced

ISA-5.1 ANSI/ISA-75.25.01 (Control Valve Response)
 ISA-TR75.25.02 IEC 61131-3

Tools & exercises

CeraPID (Windows or client/server edition) connected to the participants' historian where available

What's included

- ✓ Course manual and slide pack
- ✓ Software access for the course
- ✓ Post-course Q&A with the instructor
- ✓ Exercise and case-study pack
- ✓ Competency quiz and certificate
- ✓ Templates used in the exercises

PREREQUISITES

Basic control knowledge; TR-E02 recommended

CERTIFICATION

Certificate of completion

INSTRUCTORS

Practising engineers — TÜV HAZOP Leader, CCPSC and IEC 61511 Functional Safety certified — with 200+ years of cumulative plant experience.

Book this course or build a custom curriculum

On-site at your plant or virtual · in-house groups · competency assessment included

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