

Practical Process Control (E-CPAS)

Objectives

This training provides information about possible measures to be taken in a process after a profound control loop analysis by Siemens Plant Data Services. The training allows the participant to gain advanced knowledge about the theory of PID tuning principles and encourages him to put this into practical experience by relevant exercises. At the same time, the participant will become familiar with specific tuning methods and tools.

Target Group

Maintenance and commissioning personnel and programmers

Content

Process behavior (Gain, Process delay or dead-time, Integrating process, First order system, More complex dynamics)
Design and principle of operation of the standard PID controller
How to set up a control structure in a PCS7 environment (Control structure selection, Process value, Manipulated value, Disturbances, Cascade control, Split-range control, Smith predictor, Gain Scheduling)
Computer-aided optimization of control loops (PID-Tuning)
Control performance management
Control Performance Analytics Service (Motivation for CPAS, CPAS methodology, CPAS KPI's, dedicated diagrams)

Prerequisites

Basic knowledge of process control engineering
Practical experience in configuration of SIMATIC PCS 7

Note

Course documentation: English
Trainer: Dutch - French - English

Type

Face-to-face training

Duration

2 days

Language

en