

Practical Process Control (ST-PCS7PID)

Objectifs

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.

Groupes cibles

Maintenance and commissioning personnel and programmers

Programme / Contenu

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

Prérequis

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

Remarque

Course documentation: English
Trainer: Dutch - French - English

Type

Formation en salle

Durée

2 Jours

Langue

en