Course Description

Course Duration
The duration is 2 days.

Course Type
This is an instructor led course with interactive classroom discussions and associated lab exercises. Approximately 50% of the course is hands-on lab activities.

Course Goal
The goal of this course is to learn the functions of the PID controller and to maintain the Controller Parameter in an Extended Automation System 800xA.

Student Profile
This training is targeted to System operators, maintenance personnel & support engineers.

Prerequisites and Recommendations
Students should have knowledge and experience in process operation.

Course Objectives
Upon completion of this course, students will be able to:

- Understand the functions of a PID controller.
- Distinguish between different controllable processes.
- Maintain and Tune the PID parameters.
- Understand and distinguish between different PID controller types.
- Operate different PID Controller types.

Main Topics
- PID Controller Functions
- Operation
- Process Types.
- PID Controller Types.
- Extra Functions in PID controller
- Introduction to Fuzzy Control (Optional).
- Introduction to Process Simulation (Optional)

Optional Topics
- The Optional Topics will only be taken on request.
# DK130 System 800xA
*Operator PID Controller Functions and Maintenance*

## Course Outline

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| • Course overview  
  • PID Controller Functions  
  • PID Operation  
  • Manual Tuning Methods | • Process Types  
  • PID Controller Types and Extra Functions.  
  • Automatic tuning and adaption.  
  • Introduction to Fuzzy Control (Optional)  
  • Process Simulation (Optional) | • | • | • |