

Adv. Process Control: Advanced - Profit Controller Theory and Implementation



Course Overview

Course number: APC-4513

Course length: 4.5 days

Have you implemented one or more Profit Controller applications and would like to know more about the RMPCT engine, system architecture and advanced options?

This course is designed for experienced users of Profit Controller. The objective of the course is to reinforce and expand the user's understanding of the technology through a mixture of taught and practical modules.

Course Benefits

- Strengthened understanding of Profit Controller fundamentals such as URV deflation, blocking, active sets and minimum energy solution
- Exposure to more Profit Controller algorithm and math details
- Knowing when and how to specify Profit Controller tuning parameters when defaults are not sufficient
- Understanding of the new and advanced features of Profit Controller
- Knowing how to use advanced off-line features to obtain better models
- Knowledge of the Profit Suite Architecture

Course Delivery Options

- In-Center Instructor-Led Training

Who Should Take This Course?

Profit Controller Users

- Responsible for the design, implementation and commissioning of applications
- Responsible for application troubleshooting and maintenance

Prerequisite/Skill Requirements

Prerequisite Course(s)

- APC-4516

Required Skills and/or Experience

- Control Engineering

Desirable Skills and/or Experience

- Practical experience of designing, implementing and commissioning Profit Controller applications
- Understanding of linear algebra basics

Course Topics

You will learn how to...

- Optimally tune integrating CVs
- Use features such as "predict-back" and gain scheduling
- Apply data conditioning
- Apply nonlinear variable transformations
- Understand the difference between FIR and PEM identification methods and how to choose between them
- Validate process models
- Interpret application configuration files
- Validate tuning parameters such as soft limits, CV weights, MV weights, optimization error tolerance, performance ratios, and other tuning parameters

Additional Training

To increase your knowledge and skills, there are additional courses available from Automation College.

For more information and registration, visit www.honeywellprocess.com/en-US/training.