Automation College

Honeywell

Profit Controller Theory and Implementation – Advanced

Course Overview

Course number: 4513

Course length: 4.5 days

This course provides the ability to implement one or more Profit® Controller applications and gives an introduction to RMPCT engine, system architecture and advanced options.

It reinforces and expands the participants' 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.
- On-Site 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.

This course is aimed at users with experience of Profit Controller.

Prerequisite/Skill Requirements

Prerequisite Course(s)

- Completion of 4516 Course.

Desirable Skills and/or Experience

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

Course Topics

Participants 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 Information

For additional information, please contact **automationcollege.hpsemea@honeywell.com.**