Honeywell Academy

HONEYWELL ADVANCED PROCESS CONTROL: FUNDAMENTALS -PLANT WIDE OPTIMIZER IMPLEMENTATION

COURSE OVERVIEW

Course Number: HAPC-0008 Course Duration: 3 Days

Prerequisite Course (s): None

This course provides a fundamental understanding of plant wide or refinery wide real-time optimization and hands-on implementation using Plant Wide Optimizer software.

After a brief introduction to basic gate-2-gate optimization concepts, Plant Wide Optimizer concepts, MVPC cascade and Proxy limit approach will be presented.

The workings of Honeywell APC Engineering tools are presented to provide an in-depth understanding of Plant Wide Optimizer hybrid model development tools and exercises will be used extensively throughout the course to illustrate the different features of the software tools.

COURSE DELIVERY OPTIONS

- Instructor-Led Training (ILT)
- Virtual Instructor-Led Training (VILT)

COURSE OBJECTIVES

- Design the most suitable plant wide optimization solution structure, determine master controller and routing controller structures
- Design unit testing and master controller seed models
- Use MVPC cascade concepts of Conjoint variables and Proxy limits
- Design dynamic models from various data obtained from a unit test, LP models and process data sets
- Build the Plant Wide Optimizer hybrid model, modify secondary APC models and understand configuration files needed for the on-line implementation of PWO
- Simulate a solution off-line with the objective of performing preliminary tuning and stress testing before on-line commissioning
- Activate a controller, verify predictions, and perform commissioning

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