## **Honeywell Academy**

# HONEYWELL ADVANCED PROCESS CONTROL: ADVANCED – PROCESS CONTROLLER AND MULTI-UNIT OPTIMIZER IMPLEMENTATION

### **COURSE OVERVIEW**

Course Number: HAPC-0004 Course Duration: 4.5 Days

#### Prerequisite Course (s): HAPC-0001

Have you implemented Process Controller applications and would like to better understand the Process Controller algorithm so that you can configure and tune your applications for better performance? Do you want to know how to design and implement a Multi-unit Optimizer application?

This course is designed for experienced users of Process Controller. This course emphasizes enhancing the user's understanding of how tuning parameter values directly affect the control and optimization solutions, through expanded explanations of algorithm details and interactive simulation labs.

### **COURSE DELIVERY OPTIONS**

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

## **COURSE OBJECTIVES**

- Parameters such as the Performance Ratio,
  Feedforward-to-Feedback Performance Ratio, and
  Disturbance Estimation Tuning affect predictions
- To improve predictions with features such as "predictback", gain scheduling, and external disturbance variable (DV) predictions
- Manipulated variable (MV) soft limits, MV priorities, and CV priorities are implemented
- To improve your integrating CV tuning
- To apply nonlinear variable transformations
- The steady-state optimization solution is implemented by the Range Control Algorithm
- To tune for more aggressive control
- To design Process Controller applications for coordination by Multi-unit Optimizer
- To design and implement Multi-unit Optimizer
- To tune Multi-unit Optimizer

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