Honeywell Academy

HONEYWELL ADVANCED PROCESS CONTROL: FUNDAMENTALS – SOFT SENSOR MODELING WITH INFRERENTIAL SW IMPLEMENTATION

COURSE OVERVIEW

Course Number: HAPC-0003
Course Duration: 3.5 Days

Prerequisite Course (s): None

This course is constructed to provide a fundamental understanding of the design and implementation of Steady State Inferential Models also referred to as Soft Sensors. Basic data analysis concepts and statistical metrics will be covered with particular emphasis on the practical application of regression models. The following types of regression models will be presented: Ordinary Least Squares, Robust Regression, Principle Components Regression and Partial Least Squares Regression. Extensive hands-on use of the INFERENTIAL software to develop regression models with a variety of different data sets will result in thorough understanding of the important features of the technology. The step-by-step procedure required for the successful installation of the on-line Inferential Model and integration with Process Controller on the NT/W2K platform will also be presented. Examples on how to implement an inferential model with feedback from an on-line analyzer will be demonstrated.

COURSE DELIVERY OPTIONS

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

COURSE OBJECTIVES

- Extract reliable models out of process and lab data
- Use basic statistical metrics to determine model quality and predictability
- Implement a model on-line, and subsequently monitor the inferential over longer time for performance and validation

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