

ADV. PROCESS CONTROL: FUNDAMENTALS - EARLY EVENT DETECTION MODELS IMPLEMENTATION



Course Overview

Course number: APC-4525

Course length: 4-5 days

Designing, Deploying, or maintaining Early Event Detection models?

This course provides an introduction to multivariate data analysis with emphasis on Principal Components Analysis. The development of general EED models using Profit Design Studio is taught through workshops and practical examples. Online deployment is demonstrated using simulated data in a lab environment.

Course Benefits

Learn how to design and implement an EED model

- Gain knowledge of concepts of multivariate data analysis
- Learn how to select suitable candidates for possible EED applications using Six Sigma QFD principles
- Gain the ability to use Profit Design Studio to efficiently generate general EED models and configure these for on-line deployment
- Learn to use and navigate the on-line user interface using Profit Viewer and custom ActiveX components
- Understand and interpret the results from an on-line EED application

Course Delivery Options

- In-Center Instructor-Led Training
- On-Site Instructor-Led Training

Who Should Take This Course?

Process Control Engineers:

- Responsible for new implementations of EED models and/or supporting an existing EED model implementations
- Involved in the selection process of screening suitable candidates for possible EED applications

Prerequisite/Skill Requirements

Prerequisite Course(s)

- Understanding Basic Process Control

Required Skills and/or Experience

- None

Desirable Skills and/or Experience

- Basic math skills in linear algebra and statistics
- Knowledge of process dynamics
- Console experience
- Familiarity with Honeywell's Profit Suite software

Course Topics

You will learn how to....

- Understand both general statistical multivariate data analysis concepts and PCA theory
- Design an EED application:
 - Collect and screen historical data
 - Train a general EED model using normal operating data
 - Validate a model against both normal and non-normal operating data
 - Configure for on-line deployment
 - Commission EED application
 - Apply post commissioning tuning

Additional Training

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

For more information and registration, visit www.automationcollege.com.