

AutoCAD P&ID Advanced 2009

Duration:**2 Days**

This hands-on courseware covers many of the advanced features of AutoCAD® P&ID 2009. Students learn how to customise symbols, tagging schemes, annotations, project settings and customise the AutoCAD P&ID drafting environment.

Course Objectives:

This courseware is intended primarily for CAD Managers, and other advanced students who need to work with advanced design tools, create project settings and symbols or to customize styles and settings in the AutoCAD P&ID environment.

After completing this course, students will be able to:

- Understand the AutoCAD P&ID environment.
- Use advanced symbol and annotation functionalities.
- Create symbols, annotations and tagging schemes.
- Use customised reports to generate information.
- Define multiple views in the data manager.
- Create styles for AutoCAD P&ID objects and lines.
- Customise layer properties and the display system.

Prerequisites:

Before using this courseware, the student should be able to add components, lines and annotations to create a process and instrument diagram. The student should also have created output that includes different drawings, annotations, reports and published to hardcopies and DWF. It is recommended that the student have a working knowledge of Microsoft® Windows® Vista or Microsoft® Windows® XP.

AutoCAD P&ID Essentials Course Outline:

Day 1

- Reference project
 - Symbols and annotations
 - Creating a reference project
 - Handling the AutoCAD P&ID project settings
 - Adding custom drawing and project properties
- Creating custom symbols
 - Dynamic blocks, the basics
 - Converting existing AutoCAD blocks
 - Creating symbols on project level
 - Equipment symbols
 - Inline component symbols
 - Inline instrument symbols
 - Control valves
- Non Engineering symbols
 - Flow arrow
 - Gap
 - Drains
 - Off page connectors
- Annotations
 - Default annotations
 - Equipment tags and info labels
 - Valves, reducers and segment breakers
 - Drains and off page connector

Day 2

- Instrumentation
 - Introduction
 - Inline and general instrument symbols
 - Instrument annotations
 - Wipe out frames
- Styles for tagging schemes
 - Creating Tags
 - Tag format
 - Auto generated numbering
 - Acquisition
- Custom reports
 - Changing existing reports
 - Creating custom reports
 - Custom data manager view
 - Property mapping
- Creating line styles
 - Default line settings
 - Symbol properties
 - General style properties
 - Simple, advanced and complex line styles
 - Multiline styles
- Tool palettes
 - Customize tool palettes
 - Tool palette groups
 - Tool palettes for multiple users
 - Project specific tool palettes
- AutoCAD P&ID template
 - Creating a template
 - Layer, text, line style and color settings
 - Page setups
 - Title block and drawing border