

AutoCAD P&ID Essentials 2009

Duration:**1 Day**

This hands-on courseware covers many of the essential features of AutoCAD® P&ID 2009. Students learn how to create P&ID's by placing equipment, connecting equipment with pipelines, adding valves, reducers and pipe fittings. After creating the P&ID, the generation of reports and extracting data is covered; also a topic about validating your P&ID is part of this course.

Course Objectives:

This courseware is intended for everyone that has a need for generating Piping and Instrumentation diagrams (P&ID) or Process Flow diagrams (PFD). This course can be followed by either draftsmen or process engineers who have the need to quickly draw a P&ID or PFD.

After completing this course, students will be able to:

- Place equipment symbols.
- Connect equipment with pipe lines.
- Add inline components like valves, reducers and pipe fittings.
- Tag and annotate the piping and instrumentation diagram.
- Generate reports.
- Import and export data to Microsoft Excel.
- Validate the generated piping and instrumentation diagrams.

Prerequisites:

Before using this courseware, the student should be able to understand, read and create a piping and instrumentation diagram. In-depth knowledge of AutoCAD is not required. It is recommended that the student have a working knowledge of Microsoft® Windows® Vista or Microsoft® Windows® XP.

AutoCAD P&ID Essentials Course Outline:

- AutoCAD P&ID Introduction
 - User Interface
 - Project Manager
 - AutoCAD P&ID standards and workspaces
- Creating a project
 - Creating the project
 - Adding folders
 - Creating drawings
 - Managing your project
- Placing components
 - Adding Equipment
 - Adding Lines
 - Adding Valves, Reducers and Pipe fittings
- Placing instrumentation
 - Adding inline instruments
 - Adding general instruments
 - Connecting instruments using instrument lines
- Modifying your piping and instrumentation diagram
 - Changing equipment, valves, reducers and piping fittings
 - Changing lines and instrument lines
 - Change locations and/or remove equipment, valves, reducers and piping fittings
- Managing your project(s)
 - Project and drawing properties
 - Removing and restructuring your project
 - Copy drawings in the project and between projects
 - Required project files
 - Validating your project
 - Validation settings
- Managing your Project data
 - The data manager
 - Project and drawing data
 - Import and export data
 - Filter project and drawing data
 - Creating reports
- Converting AutoCAD symbols
 - Create a symbol
 - Edit a P&ID object block
 - Convert the AutoCAD symbol
- Plotting and publishing
 - Publish to a hardcopy
 - Publish to DWF
 - Publish options