

Plant 3D Admin Training Syllabus

User training is based on the content in Tailoring AutoCAD P&ID and AutoCAD Plant 3d by Autodesk:
http://docs.autodesk.com/PLNT3D/2015/ENU/pdf/Tailoring_AutoCAD_PnID_and_Plant_3D.pdf

User should have at least an administrative AutoCAD experience with managing blocks, templates, text styles and layers.

For remote training, each user should have a mic and headset.

Topics and Example Schedule

Day	Session Time	Description
1	8:30 - 10:00	Project Creation & Database Overview
	10:15- 12:00	Class Structure & P&ID Symbols
	1:00 - 3:00	Project Folder Management, Tool Palettes
	3:15-4:30	Tags, Annotations, Selection Lists
2	8:30-10:00	Model Organization, Equipment Templates
	10:15-12:00	Catalogs: Fittings, Valves, Instruments, Misc
	1:00 - 3:00	Catalogs Continued, Pipe Specs
	3:15-4:30	Pipe Specs
3	8:30 - 10:00	Ortho Title blocks, Annotations, Tagging
	10:15 - 12:00	Isometric Styles
	1:00 - 3:00	Isometric Title Block
	3:15-4:30	Reports

Project Creation & Database Overview

Various methods of creating new projects, which introduces the users to the tools needed to open and edit the databases. Review of SQL vs SQLite, best practices for configuring SQL.

Class Structure & P&ID Symbols

Covers the class structure schema, inheritance & branching, property creation and management. Hands-on creation of new P&ID symbols and best practices of when to create new versus using modifiers like end-types and actuators.

Project Folder Management, Tool Palettes

Creation and use of project folders and working with external discipline references. Save new content to tool palettes and share enterprise palettes with the team.

Tags, Annotations, Selection Lists

Work with various classes tag formats & learn important best practices. Create new custom annotations for P&IDs and develop company standard selection lists.

Model Organization, Equipment Templates

Create standard practices for working with piping, equipment & structural models. Develop re-usable equipment templates for parametric equipment classes.

Catalogs: Fittings, Valves, Instruments, Misc

Understand the process of working with shapes & scripts to create new catalog components and learn best practices for managing corporate content. Develop custom components and learn to create and administer block-based content.

Pipe Specifications

Create pipe specifications based on both Autodesk provided and custom catalogs. Learn best practices for formatting component data like descriptions, weights and set up properties to flow into P&IDs and piping models.

Ortho Titleblocks, Annotations & Tagging

Configure the orthographic settings, create custom annotations & learn to work with bills-of-material.

Isometric Styles

Learn to adapt provided iso styles to meet company standards while gaining a deep understanding of the structure of the XML-based configuration files.

Isometric Title Block

Define a new title block to your standards, configure the BOM, cut lists, weld lists and populate the border with process data from the P&ID line list automatically.

Reports

Create Plant 3D reports from P&ID and model data with various methodologies. Round-trip data from the model to Excel and back using Data Manager, and produce highly customized reporting with summaries in the Report Creator.