Introduction to Plant Design

Course Length: 5 days

In this training course, you learn how to use the AutoCAD® P&ID, AutoCAD® Plant 3D, and Autodesk® Navisworks® software products to complete a plant design project. This training course provides a comprehensive overview that includes all common workflows for plant design plus a focus on project setup and administration.

Topics Covered

▪ Introduction to AutoCAD Plant 3D
▪ Using AutoCAD P&ID
▪ Using Navisworks
▪ Setting up and administering a Plant project

Prerequisites

A good working knowledge of AutoCAD (i.e., a minimum of 80 hours of work experience with the AutoCAD software), is recommended.
Training Guide Contents

Chapter 1: Introduction to AutoCAD Plant 3D
- Lesson: Working in a Project
- Lesson: Opening a Drawing
- Lesson: Exploring the User Interface
- Lesson: Managing Layers and Colors

Chapter 2: AutoCAD P&ID
- Lesson: Creating and Adding Existing Drawings
- Lesson: Equipment and Nozzles
- Lesson: Piping
- Lesson: Instruments and Instrument Lines
- Lesson: Tagging Concepts
- Lesson: Annotation Concepts
- Lesson: Editing Techniques
- Lesson: Data Manager and Reports
- Lesson: Custom One-off Symbols
- Lesson: Offpage Connections
- Lesson: Generating Reports

Chapter 3: AutoCAD Plant 3D – Imperial
- Lesson: Creating Project Folders and Drawings
- Lesson: Steel Modeling and Editing
- Lesson: Equipment Modeling and Editing
- Lesson: Piping Basics
- Lesson: Piping Editing and Advanced Topics
- Lesson: Working with P&ID Data in Plant 3D
- Lesson: Creating and Annotating Orthographic Views
- Lesson: Creating Isometric Drawings

Chapter 4: Autodesk Navisworks
- Lesson: File Handling
- Lesson: Basic Navigation and Walkthrough
- Lesson: Clash Detection
- Lesson: Highlights of Scheduling and Rendering

Course description shown for AutoCAD P&ID 2020, AutoCAD Plant 3D 2020, and Autodesk Navisworks 2020. Topics, curriculum, and/or prerequisites may change depending on software version.
Chapter 5: Setting Up and Administering a Plant Project

- Lesson: Overview of Project Setup
- Lesson: Overview of Project Structure and Files
- Lesson: Setting Up Larger Projects
- Lesson: Defining New Objects and Properties
- Lesson: Customizing Data Manager
- Lesson: Creating and Editing Drawing Templates and Data Attributes
- Lesson: Specs and Catalogs
- Lesson: Isometric Setup
- Lesson: Troubleshooting
- Lesson: Creating and Managing Report Configurations
- Lesson: Setting Up SQL Express for AutoCAD Plant 3D
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