



# OVERVIEW OF COURSE

## Introduction to Plant 3D Design

**Course Length: 3 days [Extended 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 includes five chapters comprised of lessons, exercises, and review questions. The training course provides a comprehensive overview that includes all common workflows for plant design plus a focus on project setup and administration.

The main topics covered are:

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

### Prerequisites:

None

### Software Required:

- AutoCAD P&ID
- AutoCAD Plant 3D
- AutoCAD NavisWorks

**Note:** Student versions available upon registration

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### 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: Advanced Topics and Troubleshooting
- Lesson: P&ID Admin for Users
- 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

### 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



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- 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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