

# Autodesk AutoCAD Plant 3D Training Course

## Course Overview

### Course Length: 32-Hours

- 32-Hours – 8 x 4-hour training sessions
- Remote training over MS Teams
- Sessions are recorded and download links for each session are provide for future use
- Training for up to 1-3 People
- Sessions can start within 7 days upon ordering
- Flexible sessions (i.e. consecutive or Monday, Wednesday, Friday, etc.)
- Courses are private and topics can be customised to suit
- Includes Certificate of Completion

This Autodesk AutoCAD Plant 3D training course is designed to take you from project setup through to producing coordinated P&IDs, 3D piping models, and deliverables such as orthographic and isometric drawings. You will learn practical, industry-aligned workflows for modelling equipment, structures and piping, managing project data, and generating reports—while working in a guided, hands-on environment that can be tailored to your standards and project needs.

## Topics Covered

- Understanding the purpose of Building Information Management (BIM) and how it is applied in the Autodesk Revit software.
- Navigating the Autodesk Revit workspace and interface.
- Working with the basic drawing and editing tools.
- Starting a project based on Autodesk Revit models.
- Creating and modifying basic topography.
- Using Site Designer tools to modify topography with soft terrain features, sidewalks and kerbs.
- Adding retaining walls, hardscape, stairs and other building elements.
- Placing components for plantings, furniture, and lighting.
- Setting up sheets for plotting with text, dimensions, details, tags, and schedules.
- Creating details.

## Prerequisites

- Basic understanding of 2D drafting concepts and Windows file management.
- AutoCAD fundamentals (selection, snaps, layers, properties, and basic editing) are recommended.
- Access to AutoCAD Plant 3D (installed and licensed) and a stable internet connection for remote sessions.
- Optional: Prior exposure to P&ID conventions will help but is not required.

## 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**
  - 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
  - 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