

AutoCAD 3D Introduction / Intermediate – 2 Days**Overview**

Users learn about 3D modelling using solid, surface, and mesh models techniques

Objectives

- The primary objective of this AutoCAD 3D training course is to teach users the fundamental concepts and workflows for creating 3D models using AutoCAD 2012-2013. After completing this class, users will be able to -
- Create a design using solid primitives, solid or surface models from cross-sectional geometry.
- Complete a solids design by adding the necessary features to detail, duplicate, and position 3D models.
- Create free-form, organically shaped mesh models, mesh modelling tools, and convert them to solids or surfaces for additional modelling operations.
- Understand the technique of working with surface modelling tools.
- Document a 3D design by creating 2D drawings for production and visualization.

Prerequisites

Before attending, the user should have a working knowledge of creating and editing basic AutoCAD 2D objects.

Topics**3D Solids Modelling**

- Introduction to 3D Modelling
- Creating Solid Primitives
- Creating Models from 2D Profiles
- Creating Composite Solids

Editing Solid Models

- Adding Detail to Your Solid Models
- Changing the Model Position
- Duplicating the Model
- Getting Information from 3D Objects
- Creating Drawings from 3D Models

3D Mesh Modelling

- Creating Mesh models
- Editing Meshes
- Converting Meshes to solids and Surfaces

Surface Modelling

- Creating surface forms such as - Loft, Extrude, Sweep

Visualisation Tools

- Using Visual Styles
- Using Cameras and Views
- Using Lights
- Using Materials