

## AutoCad 3D Introduction / Intermediate - 2 days

### Course description

This course provides a basic understanding of how to design and modify 3D models using AutoCAD software. Creating 3D models helps users better visualize and present designs that are created with CAD. This course introduces students to the fundamental concepts and workflows for creating 3D models with AutoCAD. Students explore how to create and modify both solid and surface models. Students learn how to present their designs while they are still being

### Objectives

The four primary objectives of this courseware are to teach students how to:  
Represent a design by creating solid primitives, solid or surface models from cross-sectional geometry, or composite models from multiple solid models.  
Complete a solid model design by adding the necessary features to detail, duplicate, and position 3D models.  
Convert 2D objects to 3D objects.  
Document a 3D design by creating 2D drawings for production and visualization.  
Communicate design ideas using visual styles, lights, model walk-through tools, and renderings

### Who should attend?

AutoCAD users who are proficient in working with 2D objects and have a need to create 3D models of their designs

### Course description

Students should have a good knowledge of AutoCAD used in a 2D environment. It is also recommended that students have a working knowledge of Microsoft Windows

### 3D Modelling

- Introduction to 3D
- Creating Solid Primitives
- Creating Models from 2D Profiles
- Creating Composite Solids
- Working in 3D
- Creating Models from Cross Sections

### Editing Models

- Adding Detail to Your Solid Models
- Converting Objects
- Editing Solid Models
- Extracting Geometry from Solid Models
- Changing the Model Position
- Duplicating the Model
- Getting Information from 3D Objects

### Working Drawings and 3D Objects

- Sectioning a Solid Model and Generating 2D Geometry
- Creating Drawings from 3D Models

### Visualisation Tools

- Using Visual Styles
- Using Cameras and Views
- Navigating the Model
- Using the Sun
- Using Lights
- Using Materials
- Managing Materials