

## AutoCAD Creating and Presenting 3D Models Course

### Overview

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 created, using visualization tools such as visual styles, model walk and fly throughs, materials, and lighting. Students also learn how to output 3D models from the CAD system to either paper or a distributable, electronic version. The concepts and practices taught will help students take their AutoCAD designs to the next dimension – 3D!

### Duration

2 Days (9:30am – 4:30pm) demonstration & practical exercises.

### Prerequisites

Students should have worked in the current or a previous release of AutoCAD, and should have experience with creating and editing basic AutoCAD objects and creating and working with layouts. It is also recommended that students have a working knowledge of Microsoft® Windows® 2000 or Microsoft® Windows® XP, Microsoft® Windows® Vista.

### Syllabus

#### 3D Modeling

- 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