



3D Draughting Using AutoCAD 2010

Course Description:

This course teaches the use of the 3D solid modelling drawing and editing tools within AutoCAD 2010, including the use of coordinate systems, 3D viewing and 3D display. On successful completion of the course, you will be able to create, modify, view and render 3D solid models within AutoCAD 2010.

Who Should Attend:

The course is designed for existing AutoCAD 2D users who wish to develop 3D Solid Modelling skills.

Pre Requirements:

This module is designed for people who have completed an AutoCAD Foundation course or have experience using AutoCAD and 2D draughting.

Objectives:

After completing this course, students will be able to:

- Understand Surface & Solid Modelling Concepts & Co-ordinate Systems.
- Understand 3D Viewing Tools.
- Create & edit 3D Solid Models and learn Cross Sectioning and Slicing.
- Use more advanced 3D Solid Editing tools.
- Use AutoCAD Material and Rendering functions to produce visualization.

Course Content:

- Set the 3D working environment and system variables.
- Become familiar with various 3D modelling methods and examine the power of 3D solids.
- Use the latest 3D viewing tools to create views.
- Understand the different model display options (hidden line/shading/rendering).
- Use AutoCAD commands to produce a variety of 3D SURFACE and SOLID models e.g. extruded and revolved solids.
- Edit solid models to create more advanced models and create assemblies of components. This section introduces the
- student to AutoCAD 2010's latest 3D editing commands.
- Slice and section solids and use paperspace viewports to produce complex drawings.
- Attach and edit AutoCAD materials, and produce rendered prints and image files.
- Use the new features of AutoCAD R2010 both 2D and 3D.

Course Duration:

This is a three-day course.

Award:

Autodesk Official Certificate in 3D Drafting using AutoCAD 2010