

| AUTODESK

AutoCAD 3D Drawing and Modelling

This AutoCAD 3D Drawing and Modelling course introduces 3D modelling to those already proficient with 2D AutoCAD. The course provides a thorough grounding of the fundamentals of 3D and explores the main features of the advanced 3D Modelling workspace within the AutoCAD software.

"I found the course very informative and nicely presented." - Tim H

Prerequisites

Before attending this course, delegates need to have good working knowledge of AutoCAD. A minimum of 80 hours of work experience with the software is recommended.

Objectives

DAY ONE

3D Foundations

- Why Use 3D?
- Introduction to the 3D Modelling Workspace
- Basic 3D Viewing Tools
- 3D Navigation Tools
- Introduction to the User Coordinate System

Simple Solids

- Working with Solid Primitives
- Solid Primitive Types
- Working with Composite Solids
- Working with Mesh Models

Working with the User Coordinate System

- UCS Basics
- UCS X, Y, and Z Commands
- UCS Multifunctional Grips
- Saving a UCS by Name

DAY TWO

Creating Solids & Surfaces from 2D Objects

- Complex 3D Geometry
- Extruded Solids and Surfaces
- Swept Solids and Surfaces
- Revolved Solids and Surfaces
- Lofted Solids and Surfaces
- NURBS Surfaces

Modifying in 3D Space

- 3D Gizmo Tools
- Aligning Objects in 3D Space
- 3D Modify Commands

Advanced Solid Editing

- Editing Components of Solids
- Editing Faces of Solids
- Fillets and Chamfers on Solids

Additional Editing Tools

- Creating a Shell
- Imprinting Edges of Solids
- Slicing a Solid along a Plane
- Interference Checking
- Converting Objects to Surfaces
- Converting Objects to Solids

DAY THREE

Refining the View

- Working with Sections
- Working with Cameras
- Managing Views in 3D
- Animating with ShowMotion
- Creating ShowMotion Shots
- Creating Animations

Visualization

- Creating Visual Styles
- Working with Materials
- Specifying Light Sources
- Rendering Concepts

Working Drawings from 3D Models

- Creating Multiple Viewports
- 2D Views from 3D Solids
- Creating Technical Drawings with Flatshot
- 3D Model Import
- Automatic Model Documentation

DURATION

3 Days

COURSE CODE

ACD-3DDM

COURSE COST**\$795.00**Applies per person on a
scheduled course (excludes
VAT)

Get in touch

Please contact us on [01992 807 444](tel:01992807444) or [via email](#) where you can speak to one of our training specialists who can answer any questions you may have and/or make a reservation.