



**0208 942 5724**

Email: [Info@aspecttraining.co.uk](mailto:Info@aspecttraining.co.uk)

Web: [www.aspecttraining.co.uk](http://www.aspecttraining.co.uk)

# **AutoCAD 3D Introduction / Intermediate**

**Duration: 2 Days**

## **Overview:**

Aspect Training's AutoCAD 3D Introduction/Intermediate course is the perfect means for learning to use the three-dimensional capabilities of AutoCAD. The course has straight forward hands-on introductions to the core AutoCAD commands relating to 3D space and 3D modelling. Each session provides concise and easy-to-understand instructions helping users get the most out of every 3D feature of AutoCAD.

Using real models, this course on AutoCAD 3D shows users how to model and animate existing AutoCAD designs, as well as begin new ones.

## **Prerequisites:**

A good knowledge of AutoCAD used in a 2D environment is required for this course

Continued over....



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## **Course Topics:**

### **INTRODUCTION - WHY 3-D?**

3-D CAD TERMINOLOGY

### **ISOMETRIC DRAWING**

### **THE 3-D CO-ORDINATE SYSTEM**

### **VIEWPORTS | PERSPECTIVE VIEWS**

PERSPECTIVE VIEWS

### **WIREFRAME DRAWING TECHNIQUES**

### **LINE THICKNESS DRAWING TECHNIQUES**

### **REGIONS | 3D SURFACES**

### **EXTRUDING | LOFTING**

EXTRUDING ALONG A PATH

EXTRUDING WITH A TAPER

LOFTING

USING THE LOFT COMMAND

### **REVOLVING OBJECTS | REVSURF | REVOLVE**

### **MATERIALS AND RENDERING**

### **PRIMITIVE SOLIDS**

BOX

SPHERE

CYLINDER

CONE

WEDGE

TORUS

POLYSOLID

### **UNION | SUBTRACT | INTERSECT | EXTRUDE FACE | SLICE | 3D ALIGN**

UNION

SUBTRACT

INTERSECT

SLICE

EXTRUDE FACE

3D ALIGN

### **SETTING AND USING THE UCS**

ORIGIN:

Z-AXIS:

OBJECT:

VIEW:

X / Y / Z:

PREVIOUS:

RESTORE/SAVE/DEL/?/

### **MAPPING MATERIALS ON OBJECTS**

BOX MAPPING

PLANAR MAPPING

MAPPING MATERIALS ON OBJECTS

PUTTING THE CONCEPTS INTO

PRACTICE

### **CREATING A 3D OBJECT FROM A 2D PROFILE**

### **CREATING A BUILDING IN 3D**

### **BASIC LIGHTING AND RENDERING**