

AUTOCAD

LEVEL 3



Duration: 10 Modules/ 20 hours

Prerequisites: Autocad Level 1 & 2

Recognized Certification: Yes

Course material: provided

Pedagogical means:

- Distance learning
- Demonstrations
- Training material included

Skills acquired at the end of the training:

- Generate a 3D model
- Generate photo realistic Renderings of the exterior of a building.

DESCRIPTION

In AutoCad Level 1 and 2, various types of 2-Dimensional drawings are created. In AutoCad Level 3, various types of 3-Dimensional models are created. Additions of Materials and Lightings are also covered to create photo realistic renderings..

PROGRAM

Module 1: Introduction to 3D modeling

- The 3d modeling ribbon
- The 3d viewcube / the navigation bar
- Visual styles
- Giving an object height and elevation in the z axis
- Drawing on different surfaces
- Exercise one –the 3d octagon

Module 2: The extrude and Boolean operations

- The extrude command
- Solid modelling rules
- Elevate before extruding
- 3d move gizmo
- Boolean commands
- Subtract
- Union

- Intersection
- Exercise 2- little house
- Exercise 3- mechanical part 1

Module 3: Other 3d modelling commands

- More 3d modelling exercises
- Press pull command
- Revolve command
- Sweep command
- Loft command

Module 4: 3D Modify Commands

- More 3d modelling exercises
- Edit commands for 3d solids
- 3d fillet
- 3d chamfer
- 3d move
- 3d rotate
- 3d mirror
- 3d align

Module 5: Creating Sections drawings

- Creating solid primitives
- Creating cross sections/ slice
- Flat shot command
- Shell command
- Helix command



Module 6: Materials

- Isolating objects/ layers
- Introduction to materials
- Autodesk library
- Applying material to objects
- Applying material to faces
- Simple paint colour material
- Metal material
- Wood material
- Custom made material
- Imprint command
- Adding a camera

Module 7: Adding lights/ camera/ Rendering setup

- Adding a point light
- Adding a spotlight
- Adding sun light
- Lights in model
- Adding a background
- Shadows
- Outputting a rendered image
- Determining proper resolution (output size)
- Advanced render settings

Module 8/9/10: Final project

- Commercial building Project

QUESTIONS & ANSWERS

