

## Course Outline

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### AutoCad 3D

**Duration:** 3 days (18 hours)

**Learning Objectives:**

This course introduces AutoCAD users to the different types of 3D models and modeling techniques supported by the core AutoCAD program. Solid modeling techniques are highlighted

**Target Audience:**

**Prerequisites:**

AutoCad 2D

**Topics Covered:**

- Introduction To 3D
  - Getting Started In 3D
  - Types Of 3D Models3D Operations
  - More Practice
- Viewing 3D Drawings
  - Enhancing 3D Model Displays
  - Standard Viewing Directions
  - Introduction To 3DORBIT
  - Viewports For 3D Models
  - More Practice
- User Coordinate Systems in 3D
  - Drawing Planes & UCS Icons
  - Orthographic UCSs
  - UCSs In Other Orientations
  - Saving & Restoring UCSs
  - UCSs In Multiple Viewports
  - More Practice
- Creating Solid Models
  - EXTRUDE, REVOLVE & Boolean Operations
  - Standard SOLID Primitives
  - FILLET, CHAMFER & SLICE
  - Introduction To SOLIDEDIT
  - Tools To Analyze SOLIDS
  - More Practice

- Generating 2D Drawings From SOLIDS
  - Process Overview
  - Setting Up Viewports With SOLVIEW
  - Generating 2D Views With SOLDRAW
  - Dimensioning The Layout
  - Generating Isometric Views
  - Updating Changes To SOLIDS
  - More Practice
- Introduction To Rendering
  - Rendering Overview
  - Saving Named Views To Render
  - Creating Lights & Defining Scenes
  - Assigning Materials In Models
  - Backgrounds & Landscapes
  - More Practice