

AutoCAD Level 3: Creating and Presenting 3D Models

Length: 2 Days

Summary: Using hands-on exercises representing real-world, industry-specific design scenarios, students explore the fundamental concepts and workflows for creating 3D models with AutoCAD. Students learn how to create and modify both solid and surface models. This course also teaches students how to present their designs while they are still being created, using visualization tools such as visual styles, model walk and fly throughs, materials, and lighting. Students also learn how to output 3D models from AutoCAD to either paper or a distributable, electronic version

COURSE CONTENT

Lesson 1: 3D Modeling

- Introduction to 3D Modeling
- Creating Solid Primitives
- Creating Models from 2D Profiles
- Creating Composite Solids
- Working in 3D

Lesson 2: Creating Models from Cross Sections

- Converting 2D Objects to Solids or Surfaces

Lesson 3: Editing Models

- Adding Detail to Your Solid Models
- Converting Objects
- Editing Solid Models
- Extracting Geometry from Solid Models
- Changing the Model Position
- Duplicating the Model
- Getting Information from 3D Objects

Lesson 4: Sectioning a Model and Creating Drawings

- Sectioning a Solid Model and Generating 2D Geometry
- Creating Drawings from 3D Models

Lesson 5: Visualization

- Using Visual Styles
- Using Lights
- Using Materials
- Using the Sun
- Rendering
- Navigating the Model
- Using Cameras and Views