

Technical Education Services

AutoCAD® 3D Drawing and Modeling



Course Length: 3 days

AutoCAD 3D Drawing and Modeling introduces students who are proficient with the 2D commands in the AutoCAD® software to the concepts and methods of 3D modeling. The training guide provides a thorough grounding in the fundamentals of 3D and explores the main features of the advanced 3D Modeling workspace in the AutoCAD software.

The major topics covered in the training guide are:

- 3D viewing techniques
- Creating sections, camera perspectives, and animations
- Working with simple and composite solids
- Creating complex solids and surfaces
- Modifying objects in 3D space
- Editing solids
- Converting 3D objects
- Setting up a rendering with materials and lights
- Creating 2D drawings from 3D models
- Working with the User Coordinate System

For the current course
schedule and to register
for this course:

Web: redstack.com.au

Phone: 1300 667 263

Prerequisites:

Before taking this course, students need to have a good working skill level in the AutoCAD software. A minimum of 80 hours of work experience with the AutoCAD software is recommended.



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Table of Contents

AutoCAD 3D Drawing and Modeling

Chapter 1: 3D Foundations

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

Chapter 2: Simple Solids

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

Chapter 3: 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

Technical Education Services

Chapter 4: Modifying in 3D Space

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

Chapter 5: Advanced Solid Editing

- Editing Components of Solids
- Editing Faces of Solids Chapter 1: Getting Started with AutoCAD
- Fillets and Chamfers on Solids

Chapter 6: 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

Chapter 7: Refining the View

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

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Chapter 8: Visualization

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

Chapter 9: Working Drawings from 3D Models

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

Chapter 10: Working with the User Coordinate System

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

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For more information, contact us on 1300 667 263.