

AutoCAD 2008

Creating and Presenting 3D Models

Courseware Description

This courseware provides a basic understanding of how to design and modify 3D models using AutoCAD® software. Creating 3D models helps users better visualize and present designs that are created with CAD. This courseware introduces students to the fundamental concepts and workflows for creating 3D models with AutoCAD. Students explore how to create and modify both solid and surface models. Students learn 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 the CAD system to either paper or a distributable, electronic version. The concepts and practices taught will help students take their AutoCAD designs to the next dimension – 3D!

Hands-on exercises throughout the courseware demonstrate the modeling process using techniques that can be applied to the mainstream drafting industries. The exercises printed in the book are also provided in an on-screen format that can be viewed next to AutoCAD.

Suggested Course Duration:	3 days
Pages:	366
Trial CD:	Yes
Onscreen Exercises Included?	Yes

Objectives

The four primary objectives of this courseware are to teach students how to:

- Represent a design by creating solid primitives, solid or surface models from cross-sectional geometry, or composite models from multiple solid models.
- Complete a solid model design by adding the necessary features to detail, duplicate, and position 3D models.
- Convert 2D objects to 3D objects.
- Document a 3D design by creating 2D drawings for production and visualization.
- Communicate design ideas using visual styles, lights, model walk-through tools, and renderings.

Who Should Attend

This courseware is designed for AutoCAD users who are proficient in working with 2D objects and have a need to create 3D models of their designs.

Prerequisites

Students should have worked in the current or a previous release of AutoCAD, and should have experience with creating and editing basic AutoCAD objects and creating and working with layouts. It is also recommended that students have a working knowledge of Microsoft® Windows® 2000 or Microsoft® Windows® XP.

Course Outline

3D Modeling

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

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

Working Drawings and 3D Objects

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

Visualization Tools

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

For further information, please contact 020 7478 1000 or e-mail info@sprunt-media.net

Note: The suggested course duration is a guideline. Course topics and duration may be modified by the instructor based upon the knowledge and skill level of the course participants.

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