This class shows how easily the new AutoCAD interface can be used to create and modify existing objects in 3D. Users who are proficient with AutoCAD 2D commands will be introduced to the concepts and methods of 3D modeling. This course provides a thorough introduction to 3D fundamentals and explores the main features of the AutoCAD advanced 3D working environment.

**Prerequisites:** Students must have a basic understanding of Microsoft Windows and be proficient with AutoCAD. A general knowledge of the AutoCAD 2010-2014 basic 3D functionality is strongly recommended.

**Objectives**
This course introduces existing users of AutoCAD to the new 3D features of AutoCAD 2015. The major change in AutoCAD 2014/2015 is the increase in 3D functionality. Students learn to create primitive and complex solids, as well as use tools such as sections to display your data in a more effective method. This course also includes lighting and rendering topics that are much more robust than previous versions.

**After completing this course, students should be able to:**
- Easily navigate through the 3D environment.
- Create and modify 3D solids and use existing 2D geometry for 3D conceptual design.
- Use the Ribbon for Solids and Solid editing, as well as understand Visual Styles, Materials, Lights and Cameras.

**Who Should Attend**
This course is designed to give you the necessities of navigating the 3D environment for any AutoCAD based product. Take this class if you wish to venture from the 2D world into a 3D environment.

**Course Outline**

**The 3D Interface**
- The 3D Interface
- Enhanced 3D Visualization
- Quick Conceptual Design
- Creating Complex 3D Geometry

**Connecting and Modifying 3D Solids**
- Basic Solid and Surface Editing
- Using the Grip Tools
- Editing Parts of Solids
- 3D Modification Tools
- Working with Sections
- Creating Technical Drawing with Flatshot
- Interference Checking

**3D Visualization Tools**
- Working with Materials
- Adding Lights and Shadows
- Walking and Flying Through Models

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