

Days: 2

Audience: Professionals who want unparalleled creative freedom, productivity, and precision for producing superb 3D modeling.

Prerequisites: Knowledge of basic computer navigation and basic design/drafting procedures and terminology. Must have taken AutoCAD Fundamentals: Level 1 or have equivalent experience.

Description: Discover the powerful tools and techniques for drawing, dimensioning, and printing 2D drawings in this course that enables you to reuse content and extract information from your drawings. With an understanding of the tools and concepts you'll learn in class, you can begin to streamline the design process and become more productive with AutoCAD.

Course Objectives: In this course, you will:

- Powerful tools and techniques for drawing, dimensioning, and printing 2D drawings
- Use content that has been previously created
- Extract information from your drawings
- Streamline the design process and become more productive with AutoCAD

OUTLINE:

LESSON 1: WORKING EFFECTIVELY WITH AUTOCAD

- Creating a Custom Workspace
- Using the Keyboard Effectively
- Object Creation, Selection, and Visibility
- Working in Multiple Drawings
- Copying and Pasting Between Drawings
- Using Grips Effectively
- Additional Layer Tools

LESSON 2: ACCURATE POSITIONING

- Coordinate Entry
- Locating Points with Tracking
- Construction Lines
- Placing Reference Points

LESSON 3: PROJECTS - PRODUCTIVITY TOOLS

- Schematic Project - Purifier Unit
- Mechanical Project - 2 Views
- Architectural/Civil Project - Formal Garden
- Mechanical Project - Cover Plate
- Architectural Project - Addition
- Mechanical Project - Block
- Mechanical Project - Plate

LESSON 4: PARAMETRIC DRAWING

- Working with Constraints
- Geometric Constraints

- Dimensional Constraints

LESSON 5: WORKING WITH BLOCKS

- Creating Blocks
- Editing Blocks
- Removing Unused Elements
- Adding Blocks to Tool Palettes
- Modifying Tool Properties in Tool Palettes

LESSON 6: PROJECTS - CREATING AND ORGANIZING BLOCKS

- Mechanical Project - Control Panel
- Architectural Project - Furniture Layout
- Civil Project - Utility Layout

LESSON 7: CREATING TEMPLATES

- Why Use Templates?
- Controlling Units Display
- Creating New Layers
- Adding Standard Layouts to Templates
- Saving Templates

LESSON 8: ADVANCED LAYOUTS

- Creating and Using Named Views
- Advanced Viewport Options
- Layer Overrides in Viewports
- Additional Annotative Scale Features

AutoCAD Level 2: Intermediate

LESSON 9: ANNOTATION STYLES

- Creating Text Styles
- Creating Dimension Styles
- Creating Multileader Styles

LESSON 10: PROJECTS - DRAWING SETUP

AND UTILITIES

- Interiors Project
- Mechanical/Schematic Project
- Civil/Map Project
- Mechanical Project - Dimension Styles

LESSON 11: EXTERNAL REFERENCES

- Attaching External References
- Modifying External References
- Xref Specific Information

LESSON 12: PROJECTS - DRAWING

- D-sized Title Block
- Mechanical Project - Drill Press Base
- Architectural Project - Office Tower
- P&ID Project - Oil Lubrication System
- Civil Project - Warehouse Site