

AutoCAD Level 1

Duration: 5 Day(s)

Course Overview

This class is essential for all new AutoCAD user, or as an excellent class for end user of other CAD systems who migrating to AutoCAD.

At Course Completion

Upon completion of this course students will be able to create basic 2D drawings using the drawing and editing tools; organize drawing objects on layers; add text and basic dimensions; and prepare to plot the drawing. Students will learn essential skills in addition to more sophisticated techniques for drawing setup and

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Outline

Lesson 1: Creating A Simple Drawing

Starting AutoCAD
Using Your Pointing Device
Opening an Existing Drawing File
AutoCAD's Screen Layout
Command Line & Using the Keyboard
What Happens When Your Right-Click?
Working with multiple drawings
AutoCAD's Cartesian Workspace
Drawing Lines
Drawing Lines with Direct Distance Entry
Drawing Rectangles
Drawing with GRID and SNAP
Drawing Circles
Erasing Objects
Viewing Your Drawing
Undo
Saving Your Drawing

Lesson 2: Making Your Drawings More Precise

Polar Tracking
Snapping to Geometric Objects
Object Snap Settings
Object Snap Tracking
Selecting Objects for Editing
Moving Objects
Copying Objects
Rotating Objects
Scaling Objects

Lesson 3: Drawing Organization And Information

Organizing Your Drawing with Layers
Creating New Drawings with Templates
What are Layers
Layer State
Changing an Object Layer
Measuring Distance
Measuring Area
Getting Information from Your Drawing

Lesson 4: Creating More Complex Drawings

Drawing Arcs & Polylines
Converting Polylines to Lines & Arcs
Trim
Extend
Fillet
Chamfer
Duplication Commands
Offsetting Objects
Mirroring Objects
Array of Objects
What are Blocks?
Inserting Blocks

Lesson 5: Annotating Your Drawing

Adding Text
Adding Multiline Text
Formatting Multiline Text
Editing Multiline Text
Hatching
Editing Hatching
Adding Dimensions
Dimensioning Concept
Adding Single Dimensions
Adding Multiple Dimensions
Other Dimension Tools
Basic Leaders
Editing Dimensions
Selecting a Dimension Style

Lesson 6: Advanced Editing Features

Stretch
Lengthen
Using Grips
Grips with Specific Objects
Advanced Object Selection

Lesson 7: Efficient Construction Techniques

Coordinate Entry
Locating Points with Tracking
Placing Reference Points
Multiple Points
Defining Blocks
Converting Blocks to Components

Lesson 8: Drawing Setup And Utilities

Templates
Creating New Layers
Text Styles
Creating Dimensioning Styles
Controlling Unit Display
Design Centre
Removing Unused Spell Check

Lesson 9: Preparing To Plot

Plot Concepts
Creating a Layout
Manipulating Floating Viewports
Creating Floating Viewports
Working Inside Floating Viewports
Guidelines for Layouts
Plot Command
Plot Settings
Plot Preview
LAB & Exercise for every related topic

Drawing practical on the last day of the training