

AutoCAD Fundamentals

Course | 5 days *

Class Hours | 8:30am - 4:30pm



AutoCAD Fundamentals is an introductory course that enables students to create basic 2D drawings using AutoCAD. This course covers commands necessary in day-to-day work for creating, editing, annotating, and plotting drawings. Each topic covered is explained by the instructor and followed by exercises to reinforce the skills learned.

Prerequisites: Basic knowledge of Windows Operating System, drafting techniques and computer keyboard skills.



Autodesk
Authorized Training Center
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Visit mwcad.com for a complete class schedule or call us at 800-279-3221.

* The suggested course duration is a guideline. Course topics and timeline may be modified by the Instructor based upon the knowledge and skill level of the course participants.

What students are saying about our courses:

"I loved how the instructor focused the materials to our needs and uses. Great course!"

- Matthew Crockett, Aquaterra Environmental Solutions

"The instructor was very knowledgeable and ensured everyone grasped the concepts before moving on. He answered all questions even if they were outside the scope of the class. Great Job!"

- Vern Howard, Honeywell FM&T

AutoCAD Fundamentals Part 1

Getting Started with AutoCAD

- Starting, User Interface, Working with Commands, Cartesian Workspace

Basic Drawing and Editing Commands

- Drawing Lines, Erasing, Polar Tracking, Rectangles, Circles, Viewing, Undo/Redo, Undoing and Redoing Actions

Create a Simple Drawing

- Create a Simple Drawing, Create Simple Shapes

Drawing Precision in AutoCAD

- OSnaps, OSnap Overrides, Polar Tracking Settings, OSnap Tracking, Snap, Grid

Making Changes in your drawing

- Object Selection, Move, Copy, Rotate, Scale, Mirroring and Editing with Grips

Organizing Your Drawing With Layers

- Templates, Layers, Layer States, Changing an Object's Layer

Advanced Object Types

- Drawing Arcs, Polylines, Polygons, Ellipses

Getting Information from Your Drawing

- Measuring Objects, Object Properties

Advanced Editing Commands

- Trim & Extend, Stretch, Fillets & Chamfers, Offset, & Array

Inserting Blocks

- What are Blocks, Inserting Blocks, Dynamic Blocks, Blocks and Design Center, Blocks with Content Explorer

Setting up a Layout

- Printing Concepts, Working in Layouts, Copying Layouts, Creating Viewports, Layout Guidelines

Printing Your Drawing

- Printing Layouts, Check Plots

Text

- Working with Annotation Styles, Adding and Modifying Text, Formatting, Adding Notes with Leaders, Creating and Modifying Tables

Hatching

- Hatching Command, Hatching from Tool Palettes, Edit Hatching

Adding Dimensions

- Dimensioning Concepts, Linear Dimensions, Radial & Angular Dimensions, Editing Dimensions

AutoCAD Fundamentals Part 2

Working Effectively with AutoCAD

- Creating a Custom Workspace, Using the Keyboard, Working in Multiple Drawings, Using Grips, Working Multiple Drawings, Cut and Paste, Additional layer Tools

Accurate Positioning

- Coordinate Entry, Tracking, Construction Lines, Reference Points.

Parametric Drawing

- Adding and Modifying Geometric and Dimensional Constraints

Working with Blocks

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

Creating Templates

- Why use Templates, Units, Creating new Layers, Standard Layouts, and Saving Templates

Annotation Styles

- Text, Dimension, and Multileader Styles

Advanced Layouts

- Quick View Layouts, Named Views, Viewports, Layer Overrides, and Annotative Scale Features

External References

- Attaching External References, Modifying External References, XREF Specific Information