

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.

Getting Started with AutoCAD

Interface, Working Environment, Opening, Viewing, & Saving files

Basic Drawing and Editing Commands

Drawing Lines, Erasing, Polar Tracking, Rectangles, Circles, Undo/Redo Actions

Create a Simple Drawing

Create a Simple Drawing, Create Simple Shapes, OSnap Tracking, Snap, Grid

Drawing Precision in AutoCAD

OSnaps, OSnap Overrides, Polar Tracking

Making Changes in your drawing

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

Organizing Your Drawing With Layers

Creating with Templates, Layers, Layer States, Changing an Object's Layer

Advanced Object Types

Drawing Arcs, Polylines, Polygons, Ellipses

Analyzing Model and Object Properties

Quick Properties, Properties Palette, Matching Properties, Quick Select

Measuring Objects

Measuring Tools, Radius, Diameter, Angles, Areas

Advanced Editing Commands

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

Inserting Blocks

Block Overview, Inserting Blocks, Dynamic Blocks

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, Modifying & Formatting Text, Creating & Modifying Tables

Hatching

Hatching Command, Hatching from Tool Palettes, Edit Hatching

Adding Dimensions

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

Working Effectively with AutoCAD

Workspaces, Keyboard shortcuts, Object Selection & Visibility, Multiple Drawings, Grips, Layer Tools

Accurate Positioning

Coordinate Entry, Tracking, Construction Lines, Reference Points

Working with Blocks

Creating & Editing Blocks, Adding & modifying Blocks 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 & Modifying External References

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*

* 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.