



This course provides you with the skills needed to start using AutoCAD® from scratch and working productively in AutoCAD. You will learn how to navigate the AutoCAD interface including ribbon tabs and how to use AutoCAD commands. We will teach you how to create your own drawing by teaching you how to draw and edit AutoCAD objects such as line, arc, circle, rectangle, etc. You will also learn the concept of layers and how to manipulate layer states, the concept of blocks and how to use blocks. And more importantly, you will know how to annotate your drawing using tool such as text, dimensions, leaders and hatching. And finally, you will learn how to plot your drawing and know the concept of model space and paper space.

Prerequisites: Students must have a basic understanding of Microsoft Windows, file navigation and a fundamental understanding of drafting concepts.

Register Online: [Click here.](#)

Autodesk
Authorized Training Center

Visit www.ideateinc.com for a complete class schedule.
Or call our Training Department at 888.662.7238.

Training Facilities

San Francisco

San Jose

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Course Objectives

The primary objective of our Fundamentals training course is to gain the basics for every-day use of AutoCAD-based software. Whether you are learning AutoCAD to be able to effectively use it on a regular basis or simply need to be able to navigate around a drawing file; this course teaches you the basics. This includes understanding the interface and drawing area; drawing objects such as lines, arcs and circles effectively and accurately; using modification tools for rotating, copying, scaling and trimming objects. This course also teaches drawing units and the basics of drawing organization.

Upon completion of this course, students should have:

The fundamental and working knowledge of how to navigate through the interface; how commands work in AutoCAD -based products.

The ability to draw simple objects, modify them and the ability to check drawings for information, such as areas and distances.

The knowledge to use existing drawings as well as start new drawings from scratch by using drawing templates.

Knowledge of Layers and AutoCAD blocks.

The basics of AutoCAD annotation such as text, dimensions, leaders and hatching.

The understanding of drawing units and accurate and quick drawing skills.

The fundamentals of AutoCAD plotting and model space and paper space concept.

Who Should Attend

This class is recommended for any user who wants to get started with AutoCAD or AutoCAD LT. Whether you want to learn AutoCAD for drafting or just being able to open files, make minor changes and plot them. Whether you will work on AutoCAD full time or part time, this class for you. It will enable you to start using AutoCAD fearlessly. This class is also perfect for one who wishes to advance to AutoCAD based products, such as AutoCAD Architecture, AutoCAD MEP, AutoCAD Map and AutoCAD Civil 3D.

Day 1**Getting Started with AutoCAD**

Starting AutoCAD
The AutoCAD User Interface
Working with Commands
The AutoCAD Cartesian Workspace
Opening an Existing Drawing File
Viewing Your Drawing
Saving Your Work

Basic Drawing and Editing Commands

Drawing Lines
Erasing Objects
Drawing Lines with Polar Tracking
Drawing Rectangles
Drawing Circles
Undo and Redo Actions

Project Exercise – Creating a Simple Drawing

Create a Simple Drawing
Create Simple Shapes

Drawing Precision in AutoCAD

Using Running Object Snaps
Using Object Snap Overrides
Polar Tracking at Angles
Object Snap Tracking
Drawing with Snap and Grid

Making Changes in Your Drawing

Selecting Objects for Editing
Moving Objects
Copying Objects
Rotating Objects
Scaling Objects
Mirroring Objects
Editing with Grips

Project Exercise – Making Your Drawings More Precise

Schematic, Mechanical and Architectural Projects

Day 2**Organizing Your Drawing with Layers**

Creating New Drawings with Templates
What are Layers
Layer States
Changing an Object's Layer

Advanced Object Types

Drawing Arcs
Drawing Polylines
Editing Polylines
Drawing Polygons
Drawing Ellipses

Getting Information from Your Drawing

Working with Object Properties
Measuring Objects

Project Exercise – Drawing Organization and Information

Architectural Project
Mechanical Project
Civil Project

Advanced Editing Commands

Trimming and Extending Objects
Stretching Objects
Creating Fillets and Chamfers
Offsetting Objects
Creating Arrays of Objects

Inserting Blocks

What are Blocks
Inserting Blocks
Working with Dynamic Blocks
Inserting Blocks with DesignCenter
Inserting blocks with Content Explorer

Project Exercise – Creating More Complex Objects

Mechanical, Architectural and Civil Projects

Day 3**Setting Up a Layout**

Printing Concepts
Working in Layouts
Copying Layouts
Creating Viewports
Guidelines for Layouts

Printing Your Drawing

Printing Layouts
Printing from the Model Tab

Project Exercise – Preparing to Print

Mechanical and Architectural Projects

Text

Working with Annotations
Adding Text in a Drawing
Modifying Multiline Text
Formatting Multiline Text
Adding Notes with Leaders to Your Drawing
Creating Tables
Modifying Tables

Hatching

Hatching
Editing Hatches

Adding Dimensions

Dimensioning Concepts
Adding Linear Dimensions
Adding Radial and Angular Dimensions
Editing Dimensions

Project Exercise – Annotating Your Drawing

Mechanical, Architectural and Civil Projects