

Autodesk AutoCAD Essentials Training – Course Outline

Duration – 3Days

Who should attend?

This guide is designed for the new user who needs to know the essential commands necessary for professional 2D drawing, design, and drafting using AutoCAD or AutoCAD LT. No previous computer- aided design (CAD) experience is required.

Learn the features, commands, and techniques for creating, editing, and printing drawings with AutoCAD® 2017 and AutoCAD LT® 2017. Using hands-on exercises, users explore how to create 2D production drawings.

Course Objectives

After completing this course, you will be able to:

- Navigate the AutoCAD Workspace and Viewing commands
- Describe units and coordinate systems and create basic objects, using different data input techniques for precision
- Select, modify, and adjust the properties of objects using object grips and the Move,
- Copy, Rotate, Mirror, and Array commands.
- Create and manage layers and linetypes and obtain geometric information from objects in the drawing.
- Modify objects by changing their size, shape, orientation, or geometric composition using Trim, Extend, Offset, Join, and other commands.
- Create and edit annotation objects
- Create, edit, and manage dimensions and dimension styles.
- Enhance the drawing's visual appearance with hatch patterns and gradient fills
- Create blocks and reuse them in your drawings
- Create Layouts and plot your designs from layouts and model space
- Understand drawing templates

Course Content

Taking the AutoCAD Tour

- Navigating the Working Environment
- Working with Files
- Displaying Objects

Basic Drawing & Editing

- Drawing Lines
- Drawing Rectangles
- Drawing Circles
- Drawing with Snap and Grid
- Erasing Objects

Drawing with Precision

- Coordinate Entry
- Using Object Snaps
- Using Polar Tracking
- Using Object Snap Tracking

Manipulating Objects

- Selecting Objects in the Drawing
- Moving Objects
- Copying Objects
- Arraying Objects
- Rotating Objects
- Mirroring Objects
- Scaling Objects

Drawing Organisation and Inquiry Commands

- Using Layers
- Using Linetypes
- Layer States

Object Properties & Measurement

- Working with Object Properties
- Quick Select
- Matching Properties
- Measuring Objects

Course Requirements:

Microsoft® Windows®7, Vista® or XP working knowledge. Drafting and design experience is a plus.

Additional Info:

Candidates receive comprehensive courseware and upon completion an industry - recognised Autodesk training certificate.

PRE-REQUISITES:



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Altering Objects

- Trimming and Extending Objects to Defined Boundaries
- Creating Parallel and Offset Geometry
- Joining Objects
- Applying Fillets
- Creating a Chamfer
- Stretching Objects

Creating Additional Drawing Objects

- Working with Polylines
- Drawing Splines
- Drawing Arcs
- Drawing Polygons

Annotating the Drawing

- Creating Multiline Text
- Creating Single Line Text
- Using Text Styles
- Editing Text

Dimensioning

- Creating Dimensions
- Using Dimension Styles
- Editing Dimensions
- Using Multi-leaders

Hatching Objects

- Hatching Objects
- Editing Hatch Objects

Working with Reusable Content

- Using Blocks
- Working with DesignCenter™
- Using Tool Palettes

Working with Layouts (Drawing Sheets)

- Model /Paper Space Principles
- Setting up Layouts
- Using Viewports

Plotting Your Drawings

- Printing Layouts
- Plotting from Model Space
- Plotting Lineweights

Creating Drawing Templates

- Using Drawing Templates



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