

AutoCAD and AutoCAD LT Essentials – 24.0 Hours (3 Days)

Course Description

Summary

This class covers the essential core topics for working with AutoCAD. Participants learn the basic skills in core AutoCAD at the fundamental 2D level (AutoCAD and AutoCAD LT) which then serves as the backbone knowledge for other more complex AutoCAD products such as AutoCAD Architecture, Autodesk Civil 3D and AutoCAD Map 3D. This class covers basic drafting and editing tools that enable the student to create and edit a simple drawing. Additionally a student will gain knowledge in reusable content and annotation insertion, as well as layout development (needed for plotting sheets) and general plotting. More advanced tools are also introduced throughout the course.

Topics and Schedule

AutoCAD Concepts and Environment

- User Interface and Workspaces
- Cartesian Workspace
- Coordinate Entry

Basic Drawing and Editing Commands

- Drawing Lines, Rectangles, Circles
- Erase and Undo
- Object Selection Options
- Move, Copy, Rotate, Scale, Mirror

Drawing Precision

- Running and Override OSNAPs
- Polar Tracking
- SNAP and GRID

Organizing and Getting Info from Drawings

- Using Templates
- Layer Overview, Development, Management
- Properties Palette
- Match Properties
- Quick Select
- Measuring Objects

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Advanced Editing Commands

Trim / Extend / Stretch
Fillet / Chamfer
Offset
Rectangular, Polar and Path Arrays

Blocks

Block Overview and Block Insertion
Dynamic Block Overview
Differing Methods of Block Insertion

Model / Paper Space Concepts

Printing Concepts
Layout Overview, Creation, and Management
Printing Layouts
Printing from the Model

Text, Hatching, and Dimension Placement

Annotation Concepts
Placing and Modifying Text and Multileaders
Placing and Editing Hatch
Dimension Concepts
Placing and Modifying Dimensions

Prerequisites

A working knowledge of basic design/drafting procedures and terminology, and familiarity with current versions of Microsoft Windows is required.

Learning Objectives

1. Participants will be able to describe and control elements of the AutoCAD interface as used on student computers in the course.
2. Participants will be able to create and edit geometric entities in the sample project used in the course.
3. Participants will be able to create and edit annotation objects in the sample project used in the course.

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Learning Objectives (Continued)

4. Participants will be able to organize and extract data from the drawings in the sample project used in the course.
5. Participants will be able to print drawings in the sample project used in the course.

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