

AutoCAD and AutoCAD LT Essentials

Course Description

This course is designed for new AutoCAD® / AutoCAD LT® software users who require comprehensive training. It incorporates the features, commands, and techniques for creating, editing, and printing drawings with AutoCAD and AutoCAD LT.

Hands-on exercises throughout the course explore how to create 2D production drawings. The exercises are provided in both a printed format as well as an onscreen format that can be viewed next to AutoCAD.

Suggested Course Duration:	3 days
Pages:	Volume 1: 340 Volume 2: 250
Trial CD:	Yes
Onscreen Exercises Included?	Yes

Objectives

The primary objective of this course is to teach students the basic commands necessary for professional 2D drawing, design, and drafting using AutoCAD / AutoCAD LT.

After completing this course, students will be able to:

- Navigate the AutoCAD / AutoCAD LT user interface.
- Use the fundamental features of AutoCAD / AutoCAD LT.
- Use the precision drafting tools in AutoCAD / AutoCAD LT to develop accurate technical drawings.
- Present drawings in a detailed and visually impressive manner.

Who Should Attend

This course is designed for new users of AutoCAD or AutoCAD LT.

Prerequisites

It is recommended that students have a working knowledge of:

- Drafting, design, or engineering.
- Microsoft® Windows® XP or Microsoft® Windows® 2000.

Course Outline

Day 1

Taking the AutoCAD Tour

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

Creating Basic Drawings

- Inputting Data
- Creating Basic Objects
- Using Object Snaps
- Using Polar Tracking and PolarSnap
- Using Object Snap Tracking
- Working with Units
- Using Function Keys

Manipulating Objects

- Selecting Objects in the Drawing
- Changing an Object's Position
- Creating New Objects from Existing Objects
- Changing the Angle of an Object's Position
- Creating a Mirror Image of Existing Objects
- Creating Object Patterns
- Changing an Object's Size

Day 2

Drawing Organization and Inquiry Commands

- Using Layers
- Changing Object Properties
- Matching Object Properties
- Using the Properties Palette
- Using Linetypes
- Using Inquiry Commands

Altering Objects

- Trimming and Extending Objects to Defined Boundaries
- Creating Parallel and Offset Geometry
- Joining Objects
- Breaking an Object into Two Objects
- Applying a Radius Corner to Two Objects
- Creating an Angled Corner Between Two Objects
- Changing Part of an Object's Shape

Annotating Drawings

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

Hatching Objects

- Hatching Objects
- Editing Hatch Objects

Dimensioning

- Creating Dimensions
- Using Dimension Styles
- Editing Dimensions

Day 3

Working with Reusable Content

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

Creating Additional Drawing Objects

- Working with Polylines
- Creating Splines
- Creating Ellipses
- Using Tables

Layouts and Plotting

- Using Layouts
- Using Page Setups
- Using Viewports
- Plotting Drawings

Template Drawing Creation

- Using Drawing Templates

Note: The suggested course duration is a guideline. Course topics and duration may be modified by the instructor based upon the knowledge and skill level of the course participants.

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