
Course Title: AutoCAD Comprehensive Introduction

Course Code: ACAD-1

Duration: 3 Days

Courseware Description

This courseware 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 courseware 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.

Objectives

The primary objective of this courseware 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 courseware 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

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

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

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.