

AutoCAD Intermediate

Course Description

This course is designed for the experienced AutoCAD® user who requires additional training. It incorporates the features, commands, and techniques for becoming more productive when creating, annotating, and printing drawings with AutoCAD.

This intermediate-level course continues to build on the basic concepts of the AutoCAD Essentials course.

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 – 386 Volume 2 - 450
Trial CD:	No
Onscreen Exercises Included?	Yes

Objectives

The primary objectives of this course are:

- To teach students powerful tools and techniques for drawing, dimensioning, and printing 2D drawings.
- To enable students to reuse content that has been previously created, and extract information from their drawings.
- To teach students to grasp the high-level concepts of designing in 3D.

With an understanding of these tools, students can begin to streamline the design process and become more productive with AutoCAD.

Who Should Attend

This course is designed for the experienced AutoCAD user who wants to learn more about AutoCAD.

Prerequisites

It is recommended that students have a working knowledge of:

- The current or a previous release of AutoCAD.
- Creating and editing basic AutoCAD objects.
- Microsoft® Windows® XP or Microsoft® Windows® 2000.

Course Outline

Day 1

Drawing Objects

- Multilines
- Revision Clouds
- Wipeouts
- Boundaries
- Regions

Manipulating Objects and Data

- Using Quick Select
- Purging Objects
- Point Objects
- Dividing and Measuring Objects
- Geometry Calculator

Template Drawing Creation

- Using Drawing Templates

Dimensioning and Annotation

- Introduction to Annotation Scaling
- Controlling Annotation Scale
- Using Multileaders
- Dimensioning
- Center Marks
- Ordinate Dimensions
- Geometric Dimensioning and Tolerances
- Dimension Styles and Overrides

Day 2

Reusable Content

- Using DesignCenter™
- Creating Custom Tool Palettes
- Managing and Sharing Tool Palettes
- Using External References
- Importing Other Filetypes

Blocks and Attributes

- Blocks
- Attributes
- Edit and Extract Attributes

Dynamic Blocks

- Using Dynamic Blocks
- Parameters
- Actions
- Parameter Sets
- Creating Dynamic Blocks

Layer Management and Best Practices

- Layer Filters
- Layer States Manager
- Layer Standards

Layouts and Views

- Creating Layouts
- Modifying Layouts and Using Page Setups
- Creating Layout Viewports
- Working with Layout Viewports
- Controlling Object Visibility in Layout Viewports
- Controlling Annotation Scales in Viewports

Day 3

Plotting

- Plotter Configuration Files
- Plot Style Tables
- Publishing Drawings

Introduction to Sheet Sets

- Creating Sheet Sets
- Working with Sheet Sets
- Setting Sheet Set Properties
- Using Fields in Sheet Sets
- Using Attributes in Sheet Sets
- Publishing, Transmitting, and Archiving Sheet Sets

Creating Tables

- Table Styles
- Creating and Modifying Tables
- Creating Tables from External Data
- Advanced Table Contents
- Extracting Attributes to Tables
- Exporting and Importing Tables

Designing in 3D

- Introduction to 3D
- Creating Basic Models from 2D Profiles

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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