

AUTODESK AUTOCAD ADVANCED CERTIFIED TRAINING



Courseware 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.

Courseware Objectives

- The main objective of this course is to introduce the advanced techniques and teaches you to be more proficient in your use of AutoCAD. This is done by teaching you how to recognize the best tool for the task, the best way to use that tool, and how to create new tools to accomplish tasks more efficiently.

The major topics covered in the training are:

- *Advanced Text Objects*
- *Working with Tables*
- *Defining dynamic blocks and attributes*
- *Outputting and publishing files for review*
- *Collaboration and automation tools*
- *Creating, publishing, and customizing sheet sets*
- *Managing Layers*
- *CAD Management and System Setup*
- *Enhancing productivity by customizing the AutoCAD interface*

Duration

- 2 Days

Who Should Attend

- This course is designed for experienced users of AutoCAD who want to learn more about AutoCAD

Pre-Requisites

- Knowledge of AutoCAD basics as taught in AutoCAD Essentials & Beyond the Basics or equivalent.

Course Achievement

- Autodesk Certification of Completion shall be issued to participants with full attendance record upon training completion.



Course Content

CHAPTER 1: WORKSPACE

- 1.1 Customizing workspace
- 1.2 Creating a New Workspace
- 1.3 Creating a Ribbon Tab
- 1.4 Add a Ribbon Panel to a tab
- 1.5 Create a New Ribbon Panel
- 1.6 Add a Command to a Ribbon Panel
- 1.7 Customize the Status Bar
- 1.8 Customize Quick Access Toolbar
- 1.9 Export a Workspace
- 1.10 Import a Workspace
- 1.11 Delete a Workspace

CHAPTER 2: MASTER DECIMAL TEMPLATE

- 2.1 Create a Master Decimal Setup Template
- 2.2 Create a Page Setup for 8-1/2 x 11 Sheet
- 2.3 Create a Border and Title Block
- 2.4 Create a Viewport
- 2.5 Plotting from Layout Tab

CHAPTER 3: MASTER FEET & INCHES TEMPLATE

- 3.1 Create a Feet and Inches Setup Template
- 3.2 Create a Page Setup for 8-1/2 x 11 Sheet
- 3.3 Create a Border and Title Block
- 3.4 Create a Viewport
- 3.5 Plotting from Layout Tab
- 3.6 Create a New Dimension Style

CHAPTER 4: TABLE – ADVANCED

- 4.1 Create a Table
- 4.2 Insert a Table
- 4.3 Insert a Block into a Table Cell
- 4.4 Insert a Formula into a Table Cell
- 4.5 Change the Data Format of a Cell
- 4.6 Modify a Table using the Ribbon Tab
- 4.7 Modify a Table using Grips
- 4.8 Autofill Grips
- 4.9 Table Breaking
- 4.10 Create a Field
- 4.11 Update a Field
- 4.12 Add a Field to a Table Cell
- 4.13 Editing Fields



CHAPTER 5: ISOMETRIC DRAWINGS

- 5.1 Isometric Drawings
- 5.2 Isometric Snap & Grid
- 5.3 Isoplanes
- 5.4 Isometric Ellipse

- 5.5 Isometric Text
- 5.6 Dimensioning an Isometric Drawing

CHAPTER 6: BLOCKS

- 6.1 Blocks Annotative
- 6.2 Inserting Review
- 6.3 Creating Attributes
- 6.4 Editing Attributes
- 6.5 Edit Objects in a block
- 6.6 Extract Data from Block Attributes
- 6.7 Autodesk Design Center

CHAPTER 7: EXTERNAL REFERENCED DRAWING (XREF)

- 7.1 Inserting, Image Fade and Palette
- 7.2 Clipping an External Referenced Drawing
- 7.3 Clipping Options
- 7.4 Edit an External Referenced Drawing
- 7.5 Convert an Object to a Viewport
- 7.6 Creating Multiple Viewports and Multiple Xrefs
- 7.7 Creating Multiple Viewports – A quick method
- 7.8 Missing External Reference Drawing

CHAPTER 8: DIMENSIONING – ADVANCED

- 8.1 Ordinate Dimension
- 8.2 Qdim and Ordinate
- 8.3 Alternate Units
- 8.4 Tolerances
- 8.5 Geometric Tolerances
- 8.6 Geometric Tolerances and Qleader
- 8.7 Datum Feature Symbol
- 8.8 Datum Triangle
- 8.9 Typing Geometric Symbols

CHAPTER 9: PARAMETRIC

- 9.1 Parametric Drawing
- 9.2 Geometric Constraints
- 9.3 Controlling the Display of Geometric Constraint Icons
- 9.4 Dimensional Constraints
- 9.5 Parameter Manager
- 9.6 Controlling the Display of Dimensional Constraints Icons



CHAPTER 10: 3D – BASIC

- 10.1 Introduction to 3D
- 10.2 Enter the AutoCAD 3D Workspace
- 10.3 Viewing a 3D Model
- 10.4 ViewCube
- 10.5 Orbit
- 10.6 3D Views
- 10.7 Visual Styles
- 10.8 Wireframe Model
- 10.9 Surface Model
- 10.10 Solid Model



CHAPTER 11: 3D – PLOTTING

- 11.1 Plotting Multiple Views
- 11.2 Creating Projected Views
- 11.3 Creating Section Views
- 11.4 Shell
- 11.5 Project

Course Tentative

| TIME | DAY 1 | DAY 2 |
|------------------------|-----------------------|------------|
| 10.00am – 11.30am | Chapter 1 & Chapter 2 | Chapter 8 |
| 11.30am – 1.00pm | Chapter 3 & Chapter 4 | Chapter 9 |
| 1.00pm – 2.00pm | LUNCH BREAK | |
| 2.00pm – 3.30pm | Chapter 5 & Chapter 6 | Chapter 10 |
| 3.30pm – 5.00pm | Chapter 7 | Chapter 11 |

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