

Training Course Outline

AUTOCAD ESSENTIAL

TRAINING COURSE OUTLINE

AUTOCAD

ESSENTIAL



COURSE DESCRIPTION

To provide new AutoCAD users an understanding of the software's core functionality and features so that they can create, edit, and organize their first drawing. Users will have a solid grounding in the software so that they can immediately be productive using AutoCAD.



TARGET GROUP

This course is for anyone who plans to become a regular AutoCAD user and needs the fundamental skills to create, edit and dimension AutoCAD drawings. This course is ideal for those new to AutoCAD® or those who have not used the software for a few years. No previous CAD experience is necessary.



COURSE DURATION

Full Time: 2 Days (10.30am-5.30pm)



LEARNING OUTCOME

By the end of the course, participants should be able to:

- Drawing a 2D layout with Basic Drawing Tool
- Manage User Coordinate System
- Managing a drawing with Layers
- Annotate drawings and plotting
- Create more complex surfaces and modifying solids
- Organize drawing for Modeling & Rendering

CAREER PATH

- 2D Visualizer, Space Planner, Draught person, & Layout Designer.

COURSE PRE-REQUISITES

- Architectural design, drafting, or engineering experience is recommended. No previous CAD experience is necessary.
- A working knowledge of Microsoft® Windows® 7, Microsoft® Windows® Vista, Microsoft® Windows® XP, or Microsoft® Windows® 2000.

CERTIFICATE

MTTC Certificate of Completion will be issued to participants with full attendance record upon completion of training.

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COURSE CONTENT

DAY 1

Getting Started

- Exploring the AutoCAD 2023 for windows User Interface
- Exploring AutoCAD's Graphical use interface
- Predrawn Symbol with the Tool Palettes
- Exploring AutoCAD's Workspaces
- The AutoCAD ribbon

Creating Your First Drawing

- Home Tab's Draw and Modify Panels drawing lines and rectangles
- Canceling , Erasing & Undoing
- Using Coordinate Systems
- Using Polar Coordinates
- Drawing Circles, Arcs and Polygons
- Filleting & Chamfering Lines

Setting Up and Using the Drafting Tools

- Fine-Tuning the Measurement System
- Setting Up the Drawing Limits
- Understanding Scale Factors
- Using Polar Tracking & Modifying an Object
- Making a Preliminary Sketch
- Aligning Objects by Using Object Snap Tracking

Organizing Objects with Blocks and Groups

- Block Definition Dialog Box
- Scaling and Rotating Blocks
- Replacing Existing Files with Blocks
- Understanding the Annotation Scale
- Ungrouping, Adding & Subtracting

Keeping Track of Layers and Blocks

- Working on Layers
- Controlling Layer Visibility
- Finding the Layers You Want
- Taming an Unwieldy List of Layers

Editing and Reusing Data to Work Efficiently

- Creating and Using Templates
- Making Changes to an Associative Array
- Using Osnap Tracking to Place Objects
- Eliminating Unused Blocks, Layers, Linetypes,
- Shapes, Styles, and More

Mastering Viewing Tools, Hatches

- Understanding Regeneration and Redrawing
- Using Hatch Patterns in Your Drawings
- Controlling Hatch with the options Panel
- Controlling Hatch Behavior , default Layer, Layout Scale, and ISO Line Weight
- Managing Xrefs

DAY 2

Understanding Plot Styles

- Choosing Between Color-Dependent and Named Plot St

Adding Text to Drawings

- Exploring Text Formatting in AutoCAD
- Using the Check Spelling Feature

Using Dimensions

- Styling, Adding, Editing & Understand dimensions
- Placing Horizontal and Vertical dimensions

Drawing Curves

- Marking Divisions on Curves
- Dividing Objects into Segments of equal length
- Dividing Objects into Specified Lengths

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COURSE CONTENT



Getting and Exchanging Data from Drawings

- Finding the Area of Closed Boundaries & an Object
- Adding and Subtracting Areas with the area Command
- Determining the Drawing's Status
- Getting Information from System variables

Managing and Sharing Your Drawings

- Sharing Drawings over the Internet
- Protecting AutoCAD Drawing Files
- ePublishing Your Drawings

Laying Out Your Printer Output

- Configuring Output Devices
- Plotting in Model space
- The essential and beyond

Storing, Presenting and Extracting data

- Editing table styles & creating tables
- Using fields in table cells
- Editing table data