mttc
COLLEGE
College Reg. No. L02455

Training Course Outline

AUTOCAD
ESSENTIAL

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C O L L E G E
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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 2Dlayout 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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DAY 1

Getting Started

- Exploring the AutoCAD 2017 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 Tabl'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

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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