

AutoCAD Course – Learning AutoCAD

(AutoCAD 2d) – 32 Hours

Course description

Teaches the features, commands and techniques for creating, editing and printing drawings with AutoCAD 2011 using hands-on exercises to create 2D production drawings

Course duration

32 hours

Objectives

Upon completion this course the delegates will be able to

Navigate the AutoCAD user interfaces

Use the fundamental features of AutoCAD

Use the precision drafting tools in AutoCAD to develop accurate technical drawings

Present drawings in detailed and visually impressive way

Who should attend?

New users of AutoCAD

Prerequisites

Delegates should have a working knowledge of Microsoft Windows. No other knowledge or experience is required

Course Outlines

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 Polar Snap
- Using Object Snap Tracking
- Working with Units

Manipulating Objects

- Select Objects in Drawings
- Changing an Object's Position
- Creating New Objects from Existing Objects
- Changing the Angle of an Object's Position
- Create a Mirror image for Existing Objects
- Create 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 Line types
- Using Inquiry Commands

Altering Objects

- Trimming and Extending Objects to Define 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 Shape

Working with Layout

- Using Layouts
- Using Viewports

Annotating the Drawing

- Creating Multiline Text
- Creating Single Line Text
- Using Text Styles
- Editing Text

Dimensioning

- Creating Dimensions
- Using Dimension Styles
- Editing Dimensions
- Using Multileaders

Hatching Objects

- Hatching Objects
- Editing Hatch Objects

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

Plotting Drawings

- Using Page Setups
- Plotting Drawings

Creating Drawing Templates

- Using Drawing Templates

Drawing objects

- Creating and Editing Multilines
- Creating Revision Clouds
- Wipeout Objects
- Boundaries
- Regions

Manipulating Objects and Data

- Selecting Objects with Quick Select
- Purging Objects
- Working with Point Objects
- Divide and Measuring Objects
- Using QuickCalc for performing Calculations

Template Drawing Creation

- Create Drawing Template

Dimensioning and Annotation

- Introduction to Annotation Scaling
- Controlling Annotation Scale
- Working with Text
- Using Multileaders
- Dimensioning
- Creating Center Marks
- Creating Ordinate Dimensions
- Creating Geometric Dimensions and Tolerances
- Working with Dimension Substyles and Overrides

Reusable Content

- Using DesignCenter
- Create Custom Tool Palettes
- Organizing Tool Palettes
- Sharing Tool Palettes
- Using External References

- **Managing External References**
- **Referencing Non Native File Type**

Blocks and Attributes

- **Working with Blocks**
- **Creating Attributes**
- **Editing Attributes**

Dynamic Blocks

- **Using Dynamic Blocks**
- **Adding Parameters to Dynamic Blocks**
- **Adding Actions to Dynamic Blocks**
- **Using Parameter Sets**
- **Creating Dynamic Blocks**

Layer Management and Best Practices

- **Working with Layer Filters**
- **Using the Layer States Manager**
- **Using Layer Standards**

Layout and Views

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

Plotting

- **Working with Plotter Configuration Files**
- **Creating and Applying 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**

Working with Tables

- **Working with Table Styles**
- **Creating and Editing Tables**
- **Creating Advanced Tables**
- **Extracting Attributes to Tables**
- **Exporting and Importing Tables**
- **Creating Table Linked to External Data**