

### **AUTODESK AUTOCAD ESSENTIAL TRAINING**

### **Objectives**

The main objective of this course to teach trainee the basic commands and tools necessary for professional 2D drafting and drawing using AutoCAD. After completing this course trainee will be able to:

- ✓ Use AutoCAD for daily working process.
- ✓ Navigate throughout AutoCAD using major navigating tools.
- ✓ Understand the concept and techniques to draw.
- ✓ Create multiple designs using several of tools.
- ✓ Create layers to control the objects' visibility.
- ✓ Explain drawing using annotations.
- ✓ Plot or print the drawing by scale.
- ✓ Extracting data from drawings.

## Training Programme Day 1

Chapter	Topic	Duration	Time
Chapter 1	<ul> <li>Getting Started</li> <li>Exploring AutoCAD User Interface</li> <li>Exploring AutoCAD Workspaces</li> <li>The AutoCAD Ribbon</li> <li>Setting Drawing Unit</li> </ul>	1 -Hour	9.00 AM - 10.00 AM
Chapter 2	<ul> <li>Basic Drawing Skills</li> <li>Navigating 2D Drawings</li> <li>Drawing Lines and Rectangles</li> <li>Cancelling, erasing, Undoing</li> <li>Drawing Circles, Arcs, Polygons</li> <li>Filleting and Chamfering Lines</li> </ul>	3-Hour	10.00 AM- 1.00 PM
Chapter 3	Using Drawing Aids  Grid and Snap  Ortho and Polar Snapping  Polar Snap  Running Object Snaps  Object Snap Tracking	1-Hour	2.00PM – 3.00 PM

Chapter 4	Editing Entities		
	<ul> <li>Move and Copy</li> </ul>		
	<ul> <li>Rotate and Scale</li> </ul>		3.00 PM-
	<ul> <li>Arrays, Grip Editing</li> </ul>	2-Hour	5.00 PM
	Trim and Extend		
	<ul> <li>Lengthen and Stretch</li> </ul>		
	Offset and Mirror		

## Training Programme Day 2

Chapter	Topic	Duration	Time
Chapter 5	Shaping Curves		
	<ul> <li>Drawing and Editing Curved Polylines</li> </ul>		
	<ul> <li>Drawing Ellipses</li> </ul>	4	9.00 AM -
	<ul> <li>Drawing and Editing Splines</li> </ul>	1-Hour	10.00 AM
	<ul> <li>Blending between Objects and Splines</li> </ul>		
Chapter 6	Controlling Object Visibility		
	<ul> <li>Changing Object Properties</li> </ul>		
	<ul> <li>Setting the Current Layer</li> </ul>		40.00.484
	<ul> <li>Altering Objects' Layer Assignments</li> </ul>	1-Hour	10.00 AM- 11.00 PM
	<ul> <li>Controlling Layer Visibility</li> </ul>	1-noui	
	<ul> <li>Applying Linetype</li> </ul>		
	<ul> <li>Assigning Properties by Object or by Layer</li> </ul>		
	<ul> <li>Managing Layer Properties</li> </ul>		
Chapter 7	Organizing Objects		
	<ul> <li>Defining Blocks, Inserting Blocks</li> </ul>		11.00 PM -
	<ul> <li>Redefining Blocks, Editing Blocks</li> </ul>	2-Hour	1.00 PM
	Working with Groups		
Chapter 8	Hatching and Gradients		
	Specifying Hatch Areas		
	<ul> <li>Associating Hatches with Boundaries</li> </ul>		2.00 PM -
	Hatching the Patterns	1-Hour	3.00 PM
	Hatching the Gradients		
Chapter 9	Working with Blocks and Xrefs		
•	Working with Global Blocks		
	Searching for Content Across Multiple		3.00 PM-
	Drawings	2-Hour	5.00 PM
	<ul> <li>Storing Content on Tool Pallets</li> </ul>		
	Referencing External Drawings and Images		

# Training Programme Day 3

Chapter	Topic	Duration	Time
Chapter 10	<ul> <li>Creating and Editing Text</li> <li>Creating Text Styles</li> <li>Writing Lines of Text</li> <li>Writing and Formatting Paragraphs (MTEXT)</li> <li>Editing Text</li> </ul>	1-Hour	9.00 AM – 10.00 AM
Chapter 11	Dimensioning	2-Hour	10.00 AM – 12.00 PM
Chapter 12	<ul> <li>Keeping In Control with Constraints</li> <li>Working with Geometric Constraints</li> <li>Applying Dimensional Constraints and Creating User Parameters</li> <li>Making Parametric Changes to Constrained Objects</li> </ul>	1-Hour	12.00 PM – 1.00 PM
Chapter 13	<ul> <li>Working with Layouts and Annotative</li> <li>Creating Annotative Styles and Objects</li> <li>Creating Layouts</li> <li>Adjust Floating Viewports</li> <li>Overriding layer Properties in Layout Viewports</li> <li>Drawing on Layouts</li> </ul>	2-Hour	2.00PM – 4.00 PM
Chapter 14	<ul> <li>Printing and Plotting</li> <li>Configuring Output Devices</li> <li>Creating &amp; Using Plot Styles Tables</li> <li>Plotting in Modelspaces &amp; Paperspace</li> <li>Exporting to an Electronic Format</li> </ul>	1-Hour	4.00PM – 5.00 PM