



AUTOCAD 2D

WHO SHOULD ATTEND

This course is intended for designers, draftsman, and architects who wish to gain an understanding of AutoCAD's core functionality and features. New users will learn to create, edit and organize a drawing and become immediately productive using AutoCAD.

OBJECTIVES

This course covers:

- Using AutoCAD for daily working process.
- Managing User Coordinate System.
- Managing a drawing with Layers.
- Annotating drawings and plotting.
- Creating more complex surfaces.
- Organizing drawing for modeling and rendering.

METHODOLOGY

Participants will learn via:

- Lectures & discussion
- Demonstrations
- In-class exercises



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COURSE OUTLINE

WEEK	TOPIC	DURATION
1	<p>Introducing AutoCAD</p> <ul style="list-style-type: none"> • Introduce AutoCAD interface elements • Perform basic operations like open file, save new drawings, set paper size & units. • Understand Snap, Grid and Coordinate system 	2 Hours
	<p>Basic Drawing Technique</p> <ul style="list-style-type: none"> • Understand the coordinates and units • Creating basic geometry • Basic drawing commands – Line, arc, circle • Understanding object points and object snaps • Using running object snap mode 	2 Hours
2	<p>Editing a Drawing</p> <ul style="list-style-type: none"> • Selection sets • Deleting objects (erase) • Moving, copying and stretching objects • Rotating, mirroring, scaling and offsetting • Editing edges, corners and length of objects • Undo/redo work • Producing arrays of objects • Assignment – use the editing tools and basic drawing tools to complete a drawing of window and door schedule 	2 Hours



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	<p>Understanding Layers</p> <ul style="list-style-type: none"> • Create new layer • Change a layer's color • Change a line type to a layer • Control the later's visibility • Understand line types • Recognize line types • Load a line type • Set a line type • Understand the line type scale 	2 Hours
3	<p>Viewing and Plotting</p> <ul style="list-style-type: none"> • Use the aerial view window • Configure CAD for plotting • Plotting model space 	2 Hours
	<p>Advanced Drawing</p> <ul style="list-style-type: none"> • Working with text • Filing area with hatching • Dividing, measuring objects • Drawing rings and solid filled circles • Polylines and multilines • Dimensions 	2 Hours
4	<p>Advanced Editing</p> <ul style="list-style-type: none"> • Changing object characteristics • Create a symbol library with the block command • Using external references 	2 Hours
	Total	14 Hours