



# AUTOCAD



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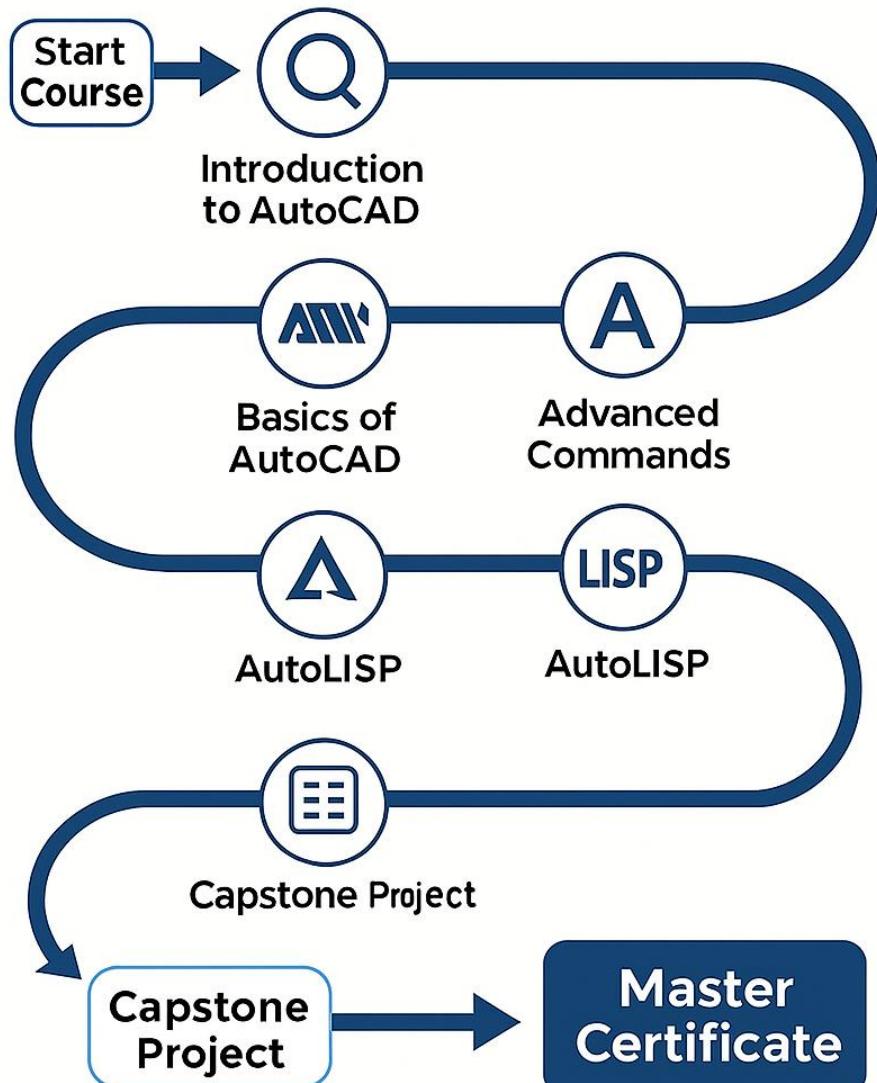
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# TechSol

We Build Professionals

## Modules of AutoCAD



## Level 1: Introduction to AutoCAD

### Learning Objectives:

- Understand the interface
- Learn basic 2D drawing tools
- Simple projects

### Topics:

- Introduction to CAD and AutoCAD
- AutoCAD Interface & Navigation
- Units, Coordinates & Limits
- Basic Drawing Tools (Line, Circle, Rectangle, Arc, Polygon)
- Object Snap & Grid Settings
- Modify Tools (Move, Copy, Mirror, Rotate, Scale)
- Layers and Properties
- Saving and Managing Drawings

## Level 2: 2D Drafting & Annotation

### Duration: 2-3 Weeks

### Learning Objectives:

- Create complete 2D drawings
- Learn dimensioning and annotations

 **Topics:**

- Object Properties & Layer Management
- Text (Single-line & Multi-line)
- Hatching and Gradients
- Dimensioning (Linear, Angular, Radial, etc.)
- Blocks and Groups
- Design Center & Tool Palettes
- Using Templates
- External References (Xrefs)
- Printing and Plotting (Layouts, Viewports)

 **Level 3: Intermediate Tools & Projects** **Duration: 2-3 Weeks** **Learning Objectives:**

- Apply intermediate tools for real-world tasks

 **Topics:**

- Advanced Modify Tools (Trim, Extend, Fillet, Chamfer)
- Attributes and Dynamic Blocks
- Multileaders and Tables
- Geometric Constraints
- Inquiry Tools (Distance, Area, ID point)
- Working with Scales and Viewports

- Creating Title Blocks
- Sheet Sets and Project Organization

## **Level 4: 3D Modeling with AutoCAD**

### **Learning Objectives:**

- Create and edit 3D models
- Apply materials and lighting

### **Topics:**

- Introduction to 3D Concepts
- 3D Drawing & Coordinate Systems
- 3D Primitives (Box, Sphere, Cylinder, etc.)
- Solid Editing Tools
- Surface Modeling
- Mesh Modeling
- Materials, Lights & Rendering
- Section & Isometric Views
- 3D Printing Export (STL)

## **Level 5: Industry Projects & Advanced Applications**

### **Learning Objectives:**

- Apply skills in architectural, mechanical, or civil projects

### **Sample Projects:**

- Floor Plan and Elevation (Architecture)
- Mechanical Component Drafting (Mechanical)
- Site Layout / Road Design (Civil)



### Final Assessment & Certification

- Capstone Project
- Evaluation/Test
- Certification of Completion