

**START YOUR
AUTOCAD
CAREER TODAY!!**

CREDO SYSTEMZ

**AutoCAD
Program**

AUTOCAD (FUNDAMENTALS TO INTERMEDIATE) COURSE SYLLABUS

Duration : 36 hrs

Course Objective

To provide a solid foundation in AutoCAD drafting and design – including creating, editing, annotating, and printing 2D drawings, with an introduction to 3D modeling concepts.

✦ Module 1: Introduction to AutoCAD & Interface Navigation

- Overview of AutoCAD environment
- Understanding coordinate systems (Absolute, Relative, Polar)
- Toolbars, Ribbon, Command Line
- File management (.DWG, .DXF)
- Setting up drawing units, limits, and grid

✦ Module 2: Drawing Basics – Geometry Creation Tools

- Drawing commands: LINE, CIRCLE, ARC, RECTANGLE, POLYGON, ELLIPSE
- Object snaps (OSNAP), Polar Tracking
- Drawing precision tools (ORTHO, GRID, SNAP)
- Practice: Drawing a telecom layout or simple mechanical plate

✦ Module 3: Modifying Commands

- MODIFY tools: ERASE, COPY, MOVE, ROTATE, SCALE, TRIM, EXTEND
- FILLET, CHAMFER, OFFSET, MIRROR, ARRAY (Rectangular/Polar/Path)
- GRIPS and Properties palette

✦ Module 4: Layers, Object Properties & Blocks

- Layer management: creating, naming, color coding
- Line types, line weights
- Creating and inserting BLOCKS
- Understanding XREF (External Reference) basics

✦ Module 5: Annotation, Text & Dimensioning

- Creating single-line and multi-line text
- Annotative text and dimensions
- Dimension styles and tolerances
- Leaders and multileaders
- Notes and callouts

✦ **Module 6: Hatching, Gradients & Boundaries**

- Applying hatches and patterns
- Gradient fills
- Using boundary and region tools
- Practical exercise on cross-sections

✦ **Module 7: Working with Layouts, Viewports & Printing**

- Model space vs Paper space
- Creating and managing viewports
- Title blocks and company templates
- Plotting/printing settings (scales, page setup)
- Exporting PDF drawings

✦ **Module 8: Advanced Object Editing & Attributes**

- Using Quick Select, Match Properties

- Creating and editing Block Attributes
- Extracting attribute data to tables or Excel
- Dynamic Blocks basics

✦ **Module 9: Introduction to 3D Concepts**

- Understanding 3D workspace
- Basic 3D commands: EXTRUDE, PRESSPULL, UNION, SUBTRACT, INTERSECT
- 3D View controls (Orbit, Visual Styles)
- Introduction to rendering and materials

✦ **Module 10: Project & Review Session**

- Full 2D Project: Site plan / Floor plan / Telecom layout
- Layers, annotations, and printing setup
- Instructor review and Q&A session

CHENNAI

VELACHERY

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OMR

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OVERSEAS

USA

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UAE

Sima Electronic Building, LLH Opposite, Electra Street – Abu Dhabi