



# AutoCAD For Mechanical Engineers

Duration: 35 Days

## Syllabus Content

### Chapter 1 : Introduction To CAD

- CAD History
- Graphical User Interface
- Workspaces
- Ribbons And Commands
- Templates
- Create New Design And Templates

### Chapter 2 : Understanding Drawings

- Projection And Views
- First Angle & Third Angle Projection
- Theory & Techniques
- Isometric And Orthographic
- Practice Sketches

### Chapter 3 : Creating Geometry Tool

- Creating Rectangles, Placing Hatch, Fillets, Chamfers, Contours
- Centerlines
- Construction Lines
- Power Snaps
- Intersection of surfaces
- Adding Standard Feature Data for Holes and Slots

### Chapter 4 : Manipulating Geometry Tool

- Editing Tools
- Power Commands
- Associative Hide

### Chapter 5: Object Property & Layer Management

- Managing Layers

- Configure Object Property Settings
- Automatic Management of Layers
- Layer Functions and Display

### **Chapter 6 : Mechanical Part Generators**

- Standard Parts
- Chains and Belts
- Shaft Generator
- Standard Shaft Parts

### **Chapter 7 : Creating Drawing Sheets**

- Model Space Views in Layouts
- Creating Drawing Sheets in Model Space
- Annotation
- Title Blocks and Drawing Borders

### **Chapter 8 : Dimensioning And Annotating Drawing**

- Annotation and Annotation Symbols
- Creating Dimensions
- Editing Dimensions
- Hole Charts and Fits List

### **Chapter 9: File Management**

- DWG Files
- IGES Files
- Model Documentation
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### **Chapter 10: 3D Design on AutoCAD**

- Extrude
- Press Pull
- Revolve
- Loft
- Sweep
- Union, Subtract

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