SourcERA

AutoCAD for Mechanical Engineers

Instructor-Led Online Training

(Duration: 40 Hrs)

Course Curriculum

Chapter 1: Getting started

- About Autodesk & AutoCAD
- CAD History
- Graphical User Interface
- Application Menu
- Workspaces
- Ribbon
- File Tabs
- Accessing Help
- Drawing Templates
- Standards Based Design
- Create New Drawings and Templates

Chapter 2: Object Property & Layer Management

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

Chapter 3: Drawing Geometry

- Drawing Creation Workflows and Organization
- Structuring Data in Drawings
- Reusing and Editing Structured Data

Chapter 4: Tools for Creating Key Geometry

- Core Design Tools: Creating Rectangles, Placing Hatch, Fillets, Chamfers, Contours
- Power Snaps
- Centerlines
- Construction Lines
- Designing with Lines
- Adding Standard Feature Data for Holes and Slots

Chapter 5: Tools for Manipulating Geometry

- Editing Tools

- Power Commands
- Associative Hide

Chapter 6: Mechanical Part Generators

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

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 Drawings

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

Chapter 9: Bill of Materials, Parts Lists and Balloons

- Bill of Materials
- Inserting Parts Lists
- Ballooning Parts

Chapter 10: File Management

- DWG Files
- IGES Files
- Model Documentation

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