

AUTOCAD MECHANICAL

ESSENTIALS

OVERVIEW

Users will learn the features, tools, and suitable techniques for creating 2D mechanical drawings using AutoCAD® Mechanical. This course provides an overview of tools to use and develop in their projects. Participants will also discover tools that aid in the organization of assemblies and the creation of detailed part and assembly drawings. Students will obtain the skills and proficiency they need to produce quality production drawings.

SPECIFICS

Duration: 4 Days

Hours: 9 am - 4 pm (including lunch hour)

Cost: \$1395/person (includes training materials)

Prerequisites:

Working knowledge of:

- Drafting, design, or mechanical engineering principles
- Microsoft® Windows®

* This course is based on Autodesk® Official Training Guide (AOTG).

TOPICS COVERED

Getting Started

- Interacting with the User Interface
- Common Drawing Setup

Object Property and Layer Management

- Property Management
- Layer Control

Organizing Drawing Geometry

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

Tools for Creating Key Geometry

- Core Design Tools
- Power Snaps
- Centerlines
- Construction Lines
- Designing with Lines
- Adding Standard Feature Data for Holes and Slots

Tools for Manipulating Geometry

- Editing Tools
- Power Commands
- Associative Hide

Mechanical Part Generators

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

Creating Drawing Sheets

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

Dimensioning and Annotating Your Drawings

- Annotation and Annotation Symbols
- Creating Dimensions
- Editing Dimensions
- Hole Charts and Fits Lists
- Revision Lists

Bill of Materials, Parts Lists, and Balloons

- Part References
- Bill of Materials
- Inserting Parts Lists
- Ballooning Parts

Design Calculations

- Design Calculations

Leveraging Existing Data

- DWG Files
- IGES Files
- Inventor Link

Mechanical Options for the CAD Manager

- Standards-Based Design
- Configure Layer, Text, and Object Properties
- Configure the Annotation Tools
- Configure Component Properties, BOMs, Parts Lists, and Balloons