



This course is designed for the AutoCAD® MEP user who wants to learn how to implement a mechanical HVAC system using AutoCAD MEP. This course uses hands-on exercises to teach students how to determine energy requirements, add HVAC equipment, ductwork, and fittings, and create construction documents using AutoCAD MEP.

Prerequisites: Knowledge of HVAC terminology and some knowledge of AutoCAD.

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Course Objectives

The primary objective of this course is to teach students the basic functions necessary for professional 2D drawing, design, and drafting using AutoCAD MEP.

Upon completion of the course, the student will:

- Determine energy requirements for engineering spaces.
- Create and annotate schematic diagrams.
- Create an HVAC system with single line ducts, ductwork, and fittings.
- Size ductwork systems.
- Create construction documents.

Who Should Attend

This course is designed for the new user of AutoCAD MEP.

Course Outline

Designing an HVAC Plan and Analyzing Energy Requirements

- Creating an HVAC Plan using AutoCAD MEP
- Creating Engineering Spaces
- Specifying Design Criteria
- Analyzing Engineering Data

Working with Schematic Drawings

- Adding and Modifying Schematic Symbols and Lines
- Annotating a Schematic Diagram

Creating an HVAC System

- Adding HVAC Equipment
- Adding Single Line Duct
- Adding Rigid Ductwork and Fittings
- Connecting Equipment/Air Terminals to Ducts
- Sizing Ductwork Systems

Creating Construction Documents

- Checking for Conflicts
- Annotating a Mechanical System
- Working with Schedules
- Creating Plot Sheet Sets/Sheet Sets
- Publishing to 3D DWF