

AutoCAD MEP Mechanical Essentials

Course Description

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. The course addresses both imperial and metric systems.

Suggested Course Duration:	1 day
Trial CD:	Yes
Onscreen Exercises Included?	Yes

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.

After completing this course, the student will be able to:

- 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.

Prerequisites

This course requires a working knowledge of a recent version of Autodesk® Architectural Desktop (now called AutoCAD® Architecture), in addition to drafting, design, or engineering experience. It is also recommended that the student have a working knowledge of Microsoft® Windows® XP or Microsoft® Windows® 2000.

Course Outline

Designing HVAC Systems, Energy Requirements, and Schematics

- Designing and Drafting HVAC Systems
- Adding Spaces and Zones
- Analyzing Engineering Data
- Creating a Schematic Diagram

Creating an HVAC System

- Adding and Modifying HVAC Equipment
- Adding 1-Line Ducts and Fittings
- Creating Connections Between Objects
- Sizing Ductwork Systems
- Adding Rigid Ductwork and Fittings
- Adding and Configuring Hangers
- Collision Detection and Crossed Objects

Creating Construction Documents

- Annotating Drawings
- Creating and Editing Schedules
- Creating Fabrication Isometrics
- Creating and Managing Plotting Sheets
- Publishing Drawings to 3D DWF

Note: The course duration is a guideline. Course topics and duration may be modified by the instructor based upon the knowledge and skill level of the course participants.

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