

## AutoCAD MEP Piping Essentials

### Course Description

This course provides comprehensive AutoCAD® MEP training on how to design, model, and make construction documents for a piping system used in commercial, institutional, and waste water environments. The hands-on exercises teach how to lay out systems from schematic design through to the design development and project construction documentation phases.

**Suggested Course Duration:** 1 day  
**Courseware provided:** Yes

### Objectives

The primary objective of this course is to teach students the basic functions necessary for creating a piping plan using AutoCAD MEP.

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

- Create, label, and modify a process flow diagram.
- Create a piping model and define route preferences.
- Place piping equipment.
- Lay out pipes, fittings and risers.
- Lay out symbols, lines, and inline annotation in ISO mode.
- Tag, schedule, and plot process flow diagrams and piping models.

### Who Should Attend

This course is designed for new users of AutoCAD MEP.

### Prerequisites

This course requires a working knowledge of a recent version of AutoCAD®, in addition to drafting, design, or engineering experience. It is also recommended that the delegate have a working knowledge of Microsoft® Windows®.



# Course Outline

---

## Designing a Piping System

- Creating Schematic Diagrams
- Using Schematics in Isometric Mode
- Defining Routing Preferences and Piping Systems
- Locating Spaces and Ceiling Grids
- Adding Piping Equipment
- Adding Pipes, Pipe Fittings and Risers

## Troubleshooting and Analysis

- Detecting Collisions Between Crossed Objects
- Checking Connections

## Creating Construction Documents

- Annotating Drawings
- Working with Schedules
- Creating Sections, Elevations and Detail Drawings
- Creating and Managing Plotting Sheets
- Publishing Drawings to DWF Files

**Note:** The suggested 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.

Autodesk and AutoCAD are trademarks or registered trademarks of Autodesk, Inc., in the USA and/or other countries. All other brand names, product names, or trademarks belong to their respective holders.

Autodesk reserves the right to alter product offerings and specifications at any time without notice, and is not responsible for typographical or graphical errors that may appear in this document.

© Autodesk, Inc. All rights reserved.



Autodesk®