

**4 Day Training Class \$1,025.00 - Topics include:**

- Introduction to Autodesk® Revit® MEP, its interface, including viewing, drawing, and editing commands
- Working with linked architectural files
- Creating and modifying views
- Understanding Autodesk Revit MEP systems in general
- Creating spaces and zones
- Analyzing heating and cooling loads
- Working with HVAC module to add air terminals, mechanical equipment, and create HVAC systems
- Working with the Piping module to add mechanical equipment as well as creating hydronic piping systems
- Working with fixtures, piping systems, and analysis tools in the Plumbing module
- Working with fire protection systems
- Working with components, circuits, cable tray, and conduits in the Electrical module
- Creating and annotating construction documents
- Adding tags and creating schedules
- Detailing in Autodesk Revit MEP

The objective is to familiarize students with the tools necessary to create, document, and print your parametric model. The examples and practices are designed to take you through the basics of a full MEP project from linking in an architectural model to construction documents.

Outline:**Chapter 1: Introduction to Revit MEP**

- Building Information Modeling (BIM) with Revit MEP
- Overview of the Revit MEP Interface
- Opening a Revit MEP Project
- Viewing Commands

Chapter 2: Basic Drawing and Editing Tools

- General Drawing Tools
- Editing Revit MEP Elements
- Basic Modifying Tools
- Additional Editing Tools

Chapter 3: Starting Revit MEP Projects

- Starting Revit MEP Projects
- Linking Revit Models
- Copying and Monitoring Linked Files
- Setting Up Levels

Chapter 4: Views

- Duplicating Views
- Adding Callout Views
- Setting the View Display
- Creating Elevations
- Creating Sections
- Working With Ceilings

Chapter 5: Autodesk Revit MEP Systems

- About Revit MEP Systems

Chapter 9: Hydronic Piping Systems

About Hydronic Piping Systems
Adding Mechanical Equipment
Drawing Piping
Creating Hydronic Systems
Automatic Piping Layouts
Fire Protection Systems

Chapter 10: Plumbing Systems

About Plumbing Systems
Adding Plumbing Fixtures
Drawing Piping for Plumbing Systems
Working with Plumbing Systems

Chapter 11: Electrical Systems

About Electrical Systems
Placing Electrical Components
Creating Electrical Circuits
Cable Trays and Conduit
Electrical Panel Schedules

Chapter 12: Construction Documents

- Setting Up Sheets
- Placing and Modifying Views on Sheets
- Printing Sheets

Chapter 13: Annotating Construction Documents

- Working with Dimensions



- Creating Systems - Overview
- System Graphics
- Connecting Components
- Analyzing Systems

Chapter 6: Spaces and Zones

- Creating Spaces
- Creating Zones
- Creating Color Schemes

Chapter 7: Performance Analysis

- Introduction to Energy Analysis
- Preparing Energy Analysis
- Analyzing the Heating and Cooling Loads
- Exporting for Secondary Analysis

Chapter 8: HVAC Systems

- About HVAC Systems
- Adding Air Terminals and Mechanical Equipment
- Adding Ductwork
- Creating Duct Systems
- Automatic Ductwork Layouts

- Working with Text
- Adding Detail Lines and Symbols
- Creating Legends

Chapter 14: Tags and Schedules

- Adding Tags
- Working with Schedules
- Creating Schedules

Chapter 15: Detailing in Revit MEP

- Setting Up Detail Views
- Creating Details
- Annotating Details
- Patterning

Prerequisites:

This course introduces the fundamental skills in learning Revit MEP. It is highly recommended that students have experience and knowledge in MEP engineering, its terminology and general knowledge of Revit software.