

Revit® MEP - Fundamentals

This class is designed to be a minimum of four days and is intended to introduce students to the basics of using Revit® MEP. The student should have a working knowledge of computers and a basic understanding of MEP terminology.

Learning Objective

Using the Revit® software, the participant will learn the basics of the software, such as the interface, creating spaces and zones, adding HVAC components, working with piping and plumbing systems, and adding electrical circuits and wiring. Participants will also learn to link Revit models and work with other disciplines.

Course Outline

- ✓ **Introduction to BIM and Autodesk Revit**
 - BIM and Autodesk Revit
 - Overview of the Interface
 - Starting Projects
 - Viewing Commands
- ✓ **Basic Sketching and Modify Tools**
 - Using General Sketching Tools
 - Inserting Components
 - Selecting and Editing Elements
 - Working with Basic Modify Tools
 - Working with Additional Modify Tools
- ✓ **Starting Systems Projects**
 - Linking and Importing CAD Models
 - Linking in Revit Models
 - Setting Up Levels
 - Copying and Monitoring Elements
 - Coordinating Linked Models
 - Batch Copying Fixtures
- ✓ **Working with Views**
 - Setting the View Display
 - Duplicating Views
 - Adding Callout Views
 - Creating Elevations and Sections
- ✓ **Setting Up Spaces**
 - Preparing a Model for Spaces
 - Adding Spaces
 - Working with Spaces
- ✓ **Heating and Cooling Loads Analysis**
 - Creating Zones
 - Using Color Schemes
 - Analyzing the Heating and Cooling Loads
- ✓ **Basic Systems Tools**
 - Connecting Components
 - Creating Systems - Overview
- ✓ **HVAC Networks**
 - Adding Mech Equipment & Air Terminals
 - Adding Ducts and Pipes
 - Modifying Ducts and Pipes
- ✓ **Plumbing Networks**
 - Adding Plumbing Fixtures and Equipment
 - Adding Plumbing Pipes
 - Modifying Plumbing Pipes
 - Adding Fire Protection Networks
- ✓ **Advanced Systems for HVAC and Plumbing**
 - Creating and Modifying Systems
 - Creating Automatic Layouts
 - Testing Systems
- ✓ **Electrical Systems**
 - About Electrical Systems
 - Placing Electrical Components
 - Creating Electrical Circuits
 - Setting up Panel Schedules
 - Adding Cable Trays and Conduit
 - Testing Electrical Layouts
- ✓ **Creating Construction Documents**
 - Setting Up Sheets
 - Placing and Modifying Views on Sheets
 - Printing Sheets

The instructor may vary the topics and outline depending on the students participating in the class or other situations.

- ✓ **Annotating Construction Documents**
 - Working with Dimensions
 - Working with Text
 - Drawing Detail Lines and Symbols
 - Creating Legends

- ✓ **Adding Tags and Schedules**
 - Adding Tags
 - Working with Schedules

- ✓ **Creating Details**
 - Setting Up Detail Views
 - Adding Detail Components
 - Annotating Details

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