

# REVIT MEP

Duration: 80 hrs

## **INTRODUCTION TO REVIT MEP-**

Revit MEP - Overview  
The Revit MEP Interface  
Customizing The Interface  
Keyboard Shortcuts  
Using The Included Working Files  
Working With Views  
File Concepts - Project Files / Templates  
File Concepts - Family Files / Templates  
File Concepts - System Families  
File Concepts - In-Place Families

## **REVIT MEP – At a Glance**

What Is New In Revit MEP  
Temporary View Properties  
Non-Rectangular Crop Regions  
Materials  
Schedules  
Displace Elements  
Alternate Dimensions  
Change Sort Order  
Print Options  
Double Click Editing Options  
Ductable Windows  
Selection Enhancements  
Imported Forms  
Lookup Tables  
Heat load Analysis  
Optimized View Navigation  
Dividing Systems  
Plumbing Template

Air Terminal On A Duct Duct And Pipe Cap Open Ends  
Routing Preferences Support For Caps  
Specific Angles  
Connector Enhancements

## **BASIC CREATION TOOLS-**

Opening A Standalone Revit MEP Project Viewing The Model - 2D  
Viewing The Model - 3D Systems Tab - HVAC And Mechanic  
Systems Tab - Plumbing And Piping Systems Tab – Electrical

## **BASIC EDITING TOOLS-**

Selecting Elements  
Using Filters  
Use Of The Tab Key  
Moving And Copying  
Copy And Paste  
Rotate  
Mirror  
Linear Array  
Radial Array  
Extend And Trim  
Align  
Offset  
Re-Hosting Elements  
Groups - Model  
Groups - The Good, The Bad And The Ugly

## **STARTING ANEW PROJECT-**

A New MEP Project  
Linking An Architects Revit Model  
Copy Monitor - Levels And Grids  
Copy Monitor - MEP Fixtures  
Initial Plan Views  
The Coordination Review Message  
Project Information  
Saving Your MEP Project - Standalone Saving Your MEP Project - Work-sharing Enabled  
Creating Local Files  
Linking CAD Files  
Using Linked CAD Files - Architectural Approach  
Using Linked CAD Files - Architecture Elevations  
Using Linked CAD Files - Architecture Floor Plans

## **VIEWS-**

Controlling Visibility  
Duplication Views - Which Types To Use  
Sections  
Elevations  
Creating Callouts  
Understanding Floor Plans View Range  
Understanding Ceiling Plans View Range  
View Templates

Match lines  
Scope Box  
Section Box

## **SPACE AND ZONE-**

Rooms And Room Tags  
Creating Spaces  
Space Separation  
Creating Zones  
System Browser And Zones  
Area And Volume Calculations  
Color Schemes

## **SYSTEM-**

The System Browser  
Graphic Overrides For HVAC And Piping Layouts  
Checking System

## **HVAC**

HVAC Load Calculation & Simulation  
Air Terminals And Mechanical Equipment  
Duct Placeholders  
Ducts pressure drop calculation  
Duct Insulation And Lining  
Modifying Ducts  
Adding And Modifying Fittings And Accessories  
Duct Systems  
Automatic Duct Layouts

## **HYDRONIC PIPING SYSTEM**

Mechanical Settings - Pipes  
Plumbing And Piping Systems  
Adding Mechanical Equipment  
Adding Placeholder Pipes  
Adding Pipes  
Parallel Pipes  
Modifying Pipes  
Adding Accessories  
Automatic Pipe Layouts

## **PLUMBING SYSTEM-**

Load calculations  
Adding & Modifying Plumbing Fixturesv Plumbing Systems  
Generating Pipe Layouts

## **FIRE PROTECTION SYSTEM-**

Sprinkler Systems  
Sprinkler Pipe Layouts

## **ELECTRICAL SYSTEM-**

Load calculations  
Electrical Components - Lighting Fixtures  
Electrical Components - Electrical Equipment  
Electrical Components - Electrical Devices  
Creating Lighting Circuits  
Creating Switch Systems  
Creating Power Circuits  
Cable Tray  
Conduit

## **ELECTRICAL PANNEL SCHEDULES-**

Creating & Modifying Panel Schedules

## **SCHEDULING-**

Schedules For Documentation  
Schedules For Data Filtering

## **DETAILING-**

Creating Details  
Adding Detail  
Detailing In 3D  
Importing Details  
Exporting Details  
Legends

## **DCOMUMENTATION-**

Sheets And Placeholders

Guide Grids

Printing

Tags Vs Text

Dimensions

Materials

Exporting Images