



This course covers the basics of Autodesk® Revit® MEP focusing on design and documentation of the Mechanical and Plumbing systems. The class includes a cross-discipline collaboration and coordination between engineering and architectural teams. The course includes hands-on exercises representing real-world design scenarios.

**Prerequisites:** MS Windows experience. Mechanical or Electrical engineering experience required.

**Register Online:** [Click here](#)

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Authorized Training Center

Visit [www.ideateinc.com](http://www.ideateinc.com) for a complete class schedule.  
Or call our Training Department at 888.662.7238.

## Training Facilities

San Francisco

San Jose

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## Course Objectives

Students will learn the recommended workflows and basic skills required to navigate Revit MEP and use its tools to create and modify mechanical, piping and plumbing systems.

### Upon completion of the course, the student will be able to:

Set up a project; produce a building information model of a commercial design for mechanical and plumbing systems.

Extract 2D drawings for construction documents.

Use the Worksharing features to collaborate with multiple users on a single project.

Document a project with all necessary floor plans, ceiling plans, sections, details, sheets, annotations, general notes and keynotes.

## Who Should Attend

This course is designed for new users of Revit MEP.

## Course Outline

### Day 1

#### Getting Started

Building Information Modeling (BIM)  
Revit MEP User Interface and Terminology  
File Types and Templates  
Navigation and Selection  
Type Parameters vs. Instance Parameters

## Setting up a Project in Revit MEP

Linking the Architectural Background

Coordinating Building Location – Project vs. Shared Coordinates

Working with Datum – Grids and Levels

Getting Notifications when the Architectural Design Changes – Copy/Monitor

Visualizing the Architectural Room Names and Numbers – Creating Spaces

## Best Practices on Managing Views

Creating and Managing Floor Plans, Sections and 3D views

Working with Visibility Graphics, View Range, Section Boxes and Hide/Isolate

### Day 2

#### Preparing the Model for HVAC Design

Mechanical settings

Creating an HVAC Zones Plan View with Color Fills

Performing Heating/Cooling Load Calculations with Revit MEP

Defining Duct/Pipe Types with the Appropriate Duct/Pipe Fittings

#### Creating HVAC Design

Adding Equipments and Diffusers  
Populating Data (CFM) Using Revit Schedules

Creating Systems

Creating Duct Layouts

Changing the Display Representation of Flex Duct  
Tagging MEP Objects  
Sizing Duct/Pipe  
Customizing Annotations – Tags  
Identifying Critical Path and Pressure Drop Using Inspection Tools

## Creating Piping and Plumbing Designs

Drawing Domestic Hot and Cold Water Systems

Drawing Sloped Piping – Sanitary System

### Day 3

#### Working in a Multiplatform Environment

Enabling Worksharing

Creating Central Files and Local Files

Understanding “Ownership of Elements”

Controlling Visibility of Worksets  
Restoring Back up Files

#### Documenting the Project

Importing/Linking CAD Details  
Exporting to DWG File Format  
Creating Keynotes and General Notes Views

Working with Text and Dimensions

Dividing the Project on Areas and Creating Area Legends – Dependant Views

Working with Sheets

Plotting and Batch Plotting

## Overview