

Course Title: Revit MEP Introduction

Course Code: REV-1M

Duration: 3 Days

Courseware Description

In this course students use Revit® MEP to learn about building information modeling and the tools for parametric MEP systems design and documentation. Students begin the three-day course by learning the fundamental features of Revit® MEP, and then progress through schematic design, system analysis, and construction documentation.

Objectives

After completing this course, you will be able to:

- Describe Building Information Modeling methodology.
- Use the Revit MEP user interface and work with different types of Revit elements and families.
- Explore views in the Project Browser, control the visibility and appearance of elements in different views, and create and modify section, elevation, and 3D views.
- Set up a project using different templates, define discipline settings, import and edit DWG™ details, and link Revit models.
- Represent volumes using spaces, create zones, and analyze an analytical model for building performance analysis.
- Placing objects, Creating basic families.
- Create Circuits and Systems.
- Check and fix interference conditions and monitor changes in files of other disciplines linked to Revit MEP.
- Create callout views, create and use detail views, and work with drafting views.
- Work with text and tags, dimensions, and schedules and create legends with notes, annotation symbols, and model elements.
- Add and work with titleblocks, create and modify sheets, and specify print options and print documentation sets.

Who Should Attend

The target audience for this class includes students with Electrical, Mechanical or Hydraulics engineering, design and drafting experience.

Prerequisites

This course is designed for Electrical Mechanical and Plumbing engineer design professionals. It is recommended that you have a working knowledge of:

- MEP engineering and design.
- Microsoft® Windows® 2000 or Microsoft® Windows® XP.

Course Outline

Day 1 (common to all disciplines)

Building Information Modelling

- Building Information Modelling

Revit MEP Basics

- Exploring the User Interface
- Working with Revit Elements and Families

Viewing the Model

- Exploring Views
- Controlling Object Visibility
- Working with Section and Elevation Views
- Working with 3D Views

Starting a New Project

- Setting Up a Project
- Setting Up View Templates
- Defining Discipline Settings
- Importing Typical DWG™ Details
- Linking a Revit Model

Day 2 (common to all disciplines)

Electrical Systems

- Creating HVAC Designs
- Creating Electrical Designs
- Creating Piping Designs
- Creating Plumbing Designs
- Elements and Families

Day 3 (common to all disciplines)

Working with Architects and Engineers

- Running an Interference Check
- Multiple Disciplines and Linked Files
- Worksharing

Detailing and Drafting

- Creating Callout Views
- Working with Detail Views
- Working with Drafting Views
- Basic Family creation

Annotations and Schedules

- Adding Tabs
- Adding Dimensions, Symbols, and Text
- Creating Legends
- Working with Schedules

Construction Documentation

- Creating Sheets and Title Blocks