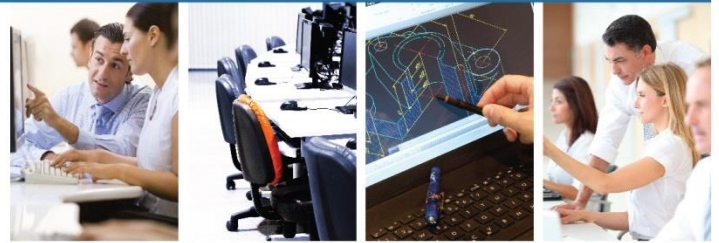


# REVIT MEP 2018 FUNDAMENTALS

## COURSE OUTLINE



### Class Description

The Revit MEP Fundamentals training course is intended to introduce students to the software's user interface and the basic HVAC, electrical, and piping/plumbing components that make Revit MEP a powerful and flexible engineering modeling tool. 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.

### Prerequisites

Windows experience and understanding of MEP principles and practices.

**Class Length:** 4 days

### Course Topics

#### Introduction to BIM and Autodesk Revit

- BIM and Autodesk MEP
- Overview of the Revit MEP 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

#### Basic System Tools

- Connecting Components
- Working with Additional Modify Tools
- Creating systems

#### Starting System Projects

- Linking in Revit Models
- Setting up Levels
- Copying and Monitoring Elements
- Batch Copying Fixtures
- Coordinating Linked Models

#### Working with Views

- Setting the view Display
- Duplicate Views
- Adding Callout Views
- Elevations and Sections

#### Spaces & Zones

- Preparing a Model for Spaces
- Adding Spaces
- Working with Spaces
- Creating Zones
- Applying Color Schemes

#### Setting up Spaces

- Preparing a Model for Spaces
- Adding Spaces
- Working with Spaces

#### Heating and Cooling Loads Analysis

- Creating Zones
- Applying Color Schemes
- Analyzing the Heating & Cooling Loads

#### HVAC Networks

- Adding Mechanical Equipment and 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 from 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 & Modifying Views on Sheets
- Printing Sheets

#### Annotating Construction Documents

- Working with Dimensions
- Working with Text
- Adding Detail Lines & Symbols
- Creating Legends

#### Adding Tags and Schedules

- Adding Tags
- Working With Schedules

#### Creating Detail

- Setting Up Detail Views
- Creating Details
- Annotating Detail