

# Autodesk® Revit® MEP Complete Guide

Autodesk® Revit® MEP software is the building information modeling (BIM) solution for mechanical, electrical, and plumbing (MEP) engineers, providing purpose-built tools for building systems design and analysis. With Revit® MEP, engineers can make better decisions earlier in the design process because they can accurately visualize building systems before they are built.

**Autodesk® Revit® MEP Complete Guide** is designed specifically for the Building Services Engineer, covering mechanical, electrical and plumbing services from a design and drafting perspective. With unprecedented levels of communication potential and an easy workflow for handling client revisions and design development, Autodesk® Revit® MEP provides a platform for well-managed and coordinated deliverables from concept through to fabrication. You will be guided around the software interface and core toolset before being taken through a series of Let Me Try tasks which not only provide an insight into the Autodesk® Revit® MEP approach, but also explain best practice protocols and practical techniques along the way.

## User's prerequisites

You don't need any previous experience with Autodesk® Revit® MEP to take this course.

## Course Outline

### Introduction to Autodesk Revit MEP

- Introducing the Autodesk Revit MEP User Interface
- Understanding the Interface, Getting Help

### Getting Started with an MEP Project

- Starting a New Project in Revit MEP
- Linking Revit Models and Sharing Coordinates
- The Snaps Tool, The Options Dialog Box

### Creating Datums, Project Views, and Building Envelopes

- Working with Levels
- Working with Grids
- Understanding Wall Types
- Working with Walls, Floors and Ceilings, Adding Rooms

### Spacing, Zones, and Cooling and Heating Load Analysis

- Creating Spaces
- Color Schemes, Working with Zones

### Creating a Mechanical System

- Understanding HVAC Systems
- Generating HVAC System Layouts

### Creating an Electrical System

- Understanding Electrical Systems
- Adding Power and System Devices

### Creating a Plumbing System

- Understanding Plumbing Systems
- Working with Plumbing Systems

### Creating Fire a Protection System

- Understanding Fire Protection Systems
- Designing the Fire Protection System

### Creating Construction Documents

- Dimensioning
- Modifying Dimensions, Tags
- Creating Detail Views, Adding Sheets

### Creating Families and Worksharing

- Understanding Massing Concepts
- Editing a Massing Geometry
- Creating Masses in the Conceptual Design Environment
- Worksharing Concepts

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