

## Autodesk Revit MEP Training – Course Outlines

**Duration** – 3 online Days

**Who should attend?**

Learn about building information modeling and the tools for parametric MEP systems design and documentation using Autodesk Revit MEP.

### Description

Begin the three-day guide by learning the fundamental features of Autodesk Revit MEP, then progressing through system design, system analysis and construction documentation.

### Objectives:

To teach users the concepts of Building Information Modelling and introduces the tools for parametric engineering design and documentation using Autodesk Revit MEP 2015. Users should be able to complete their first Autodesk Revit MEP project after completing this class.

## Course Content:

### Building Information Modelling

- Building Information Modelling for MEP Engineering
- Introducing Revit as a BIM tool

### UI Tour, Project Navigation and View Creation

- Exploring the User Interface
- Placement & Properties of Grids, Levels & Dimensions
- Working with Revit Elements and Families
- Managing Views
- Controlling Object Visibility
- Working with Section and Elevation Views
- Creating and Modifying 3D Views

### Element Selection & Manipulation

- Element Properties & Manipulation
- Instance & Type Parameters
- Modify tools, Nodes & Snaps

### Visibility Control & Categorisation

- Project Wide Settings
- View Specific Overrides
- Element Specific Overrides
- Individual Line Overrides

### Establishing a Project

- Project Units – Common, HVAC, Electrical & Piping
- MEP settings, Symbols & Schematic Design
- Project Commencement & Collaboration
- Linking CAD & Revit Architecture
- Coordination Review

### Introduction to Building Elements

- Basic Wall definitions, floors, roofs & ceilings
- Sketching Rules and relating slabs to walls & supports
- Slabs slopes, Roof design and Ceiling definitions
- System Family editing

## Course Requirements:

Microsoft® Windows®7, Vista® or XP working knowledge. Drafting and design experience is a plus.

## Additional Info:

Candidates receive comprehensive courseware and upon completion an industry - recognised Autodesk training certificate.

**PRE-REQUISITES:** It is recommended that students have a working knowledge of the following: MEP engineering principles.

## Equipment, Fixtures & Fittings

- Family Terminology
- Component Placement
- Selecting the correct Level
- MEP Workflow

## Introducing Systems

- Setting up a Project Profile
- System Browser
- Main Systems
  - Mechanical
  - Electrical
  - Plumbing

## Basic Schedules and Legends

- Scheduling Components
- Style Schedules
- Legends

## Mechanical Systems

- Mechanical Settings
- Duct Types & fittings
- Creating duct & Piping systems
- Insulating & lining ductwork
- Plant & equipment
- Mechanical Pipework, flanges and fittings
- Checking and Fixing Interference Conditions

## Electrical Systems & Circuits

- Equipment, devices & fixtures
- Wiring, cable tray and conduit modelling
- Circuits and Switch Systems

## Plumbing Systems

- Plumbing settings
- Plumbing fixtures
- Creating plumbing systems
- Creating sanitary systems
- Domestic hot & cold water systems
- System browser

## Spaces, Zones, Areas & Volumes

- Differentiate between Spaces, Zones, Areas & Volumes
- Defining spaces, bounding elements, tags & schedules
- Computation for areas and volumes
- Using Space data outside of Revit
- Colour schemes and Legends

## 2D Drafting & Annotation

- Introducing Annotation tools and component categories
- Detail component libraries
- Repeating Details
- Lines & arcs
- Text, Tags & Keynotes

## Sheet Compilation & Publication

- Project browser organisation
- Creating & populating sheets
- Working with schedules
- Publishing & document management



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