

> Objective of Course

The primary objective of this course is to teach delegates the concepts of building information modelling and introduce the tools for parametric engineering design and documentation using Revit MEP.

> Agenda

This course covers the basics of building information modelling and the tools for parametric MEP systems design and documentation. Delegates will learn the fundamental features of Revit MEP, and then progress through schematic design, system analysis and construction documentation before finishing with design visualisation.

During the course delegates will cover:

Day 1

- 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
- Coordinating Linked Projects

Day 2

Defining Volumes

- Representing Volumes
- Creating Zones
- Building Performance Analysis

Heating and Cooling Load Calculations

- Defining Heat and Cooling Information
- Calculating Heating and Cooling Loads

HVAC Systems

- Creating an HVAC System
- Generating Layouts

Piping Systems

- Creating System Piping

Plumbing Systems

- Creating Plumbing Systems

Fire Protection Systems

- Creating Fire Protection Systems

Electrical Systems

- Creating Electrical Circuits
- Generating Wires

Day 3

Working with Architects and Engineers

- Running an Interference Check
- Multiple Disciplines and Linked Files

Detailing and Drafting

- Creating Callout Views
- Working with Detail Views
- Working with Drafting Views

Annotations and Schedules

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

Construction Documentation

- Creating Sheets and Title Blocks
- Printing Sheets

The above may be varied to suit client's preferences and requirements

> Who Should Attend?

This course is designed for new users of Revit MEP.

> Prerequisites

No previous CAD experience is necessary. However, it is recommended that students have a working knowledge of the following: **0B8CHH0LS0LH50HVIIGRZVRU0**