

# Learning Revit MEP 2010

## Description

Duration: 3 Days

Students use Revit® MEP 2010 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 2010, and then progress through schematic design, system analysis, and construction documentation before finishing with design visualisation.

## Course Objectives:

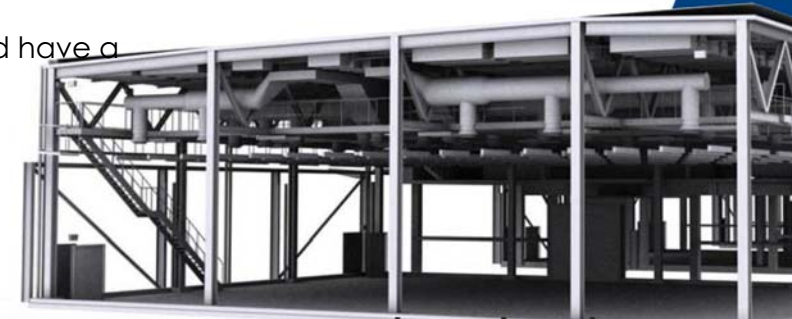
The primary objective of this courseware is to teach students the concept of building information modelling and introduce the tools for parametric engineering design and documentation using Revit MEP 2009. After completing this course, students will be able to:

- Describe the benefits of building information modelling.
- Use the fundamental features of Revit MEP 2010.
- Set up, import, and link projects with Revit MEP 2010.
- Use the parametric 3D design tools to design and analyse MEP systems.
- Create detailing and drafting views.
- Collaborate with architects and engineers on projects.
- Annotate and create project schedules.
- Create construction documentation.

## Who Should Attend & Prerequisites:

This courseware is designed for new users of Revit MEP 2010. No previous CAD experience is necessary. However, before using this courseware, students should have a working knowledge of the following:

- MEP engineering principles.
- Microsoft® Windows® XP or Microsoft® Windows® 2000.



## Learning Revit MEP Course Outline:

### Day 1

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#### Building Information Modeling

- Building Information Modeling

#### 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

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#### 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

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#### 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

