

REVIT MEP FUNDAMENTALS

Description

This course covers the basic of Building Information Modelling using Autodesk Revit MEP. During this course, students will be taken through the building design process using all the basic commands and tools that enable you to create and edit a parametric MEP systems design as well as being introduced to documentation techniques. Students begin the three-day course by learning the fundamental features of Revit MEP, and then progress through schematic design, system analysis, and construction documentation.

Certification

An Advanced Spatial Technologies "Certificate of Completion" will be issued on completion of the course.

Objectives

On completion of this course students will have been given the opportunity to acquire knowledge and understanding of commands and concepts that develop the skills necessary to demonstrate competency in:

- Using the fundamental features of Revit MEP 2013
- Setting up, importing, and linking projects with Revit MEP 2013
- Represent volumes using spaces, create zones, and analyse an analytical model for building performance analysis.
- Using the parametric 3D design tools to design and analyse MEP systems
- Creating Callout, Detail and Drafting Views
- Collaborating with Architects and Engineers on projects
- Annotating and creating project schedules
- Creating construction documentation

Pre-requisites

This course is designed for new users of Revit. No previous CAD experience required, but students are expected to have experience and knowledge in MEP engineering and its terminology.

Delivery Mode: 3 days (0900-1600)



Training Course Subjects

Revit MEP Basics

- Exploring the User Interface
- Working with Revit Elements and Families
- Using Modifying Tools

Viewing the Model

- Working with Views & View Templates
- Controlling Object Visibility
- Create and Modify Section and Elevation Views
- Working with 3D Views

Starting a New Project

- Setting up a Project
- Working with Project and Shared Parameters
- Linking a Revit Architecture Project
- Defining Discipline Settings
- Using Collaboration Tools

Building Performance Analysis

- Creating Spaces & Zones
- Introduction to Energy Analysis
- Preparing Energy Analysis
- Calculating the Heating and Cooling Loads

Working with Architects and Engineers

- Running an Interference Check
- Worksharing and Worksets

Creating Systems

- Create a HVAC System and Generate Layout
- Create New Duct Type
- Create a Hydronic Piping System
- Create a Sanitary Plumbing System
- Create a Hot & Cold Water Plumbing System
- Create a Wet & Dry Fire Protection System
- Creating Electrical Circuits and Wiring

Detailing and Drafting

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

Annotations and Schedules

- Working with Text and Tags
- Adding Dimensions
- Creating Keynotes
- Creating HVAC Legend
- Working with Schedules

Construction Documentation

- Working with Titleblocks
- Working with Sheets

Course topics and duration may be modified by the instructor based upon the knowledge and skill level of the course participants.

