

REVIT MEP MECHANICAL HVAC

Description:

The two day instructor-led course will teach students to use Autodesk Revit MEP to model HVAC Systems. Instructor will use lectures and hands-on exercises to impart the technique of producing functional mechanical HVAC systems on a complete architectural building model.

At the end of the course, student will be able to start a new project, create different views, execute energy analysis of the model, work with mechanical settings, create mechanical systems and produce drawing sheets for construction documents.

Learning Objectives:

Upon completion of this course, you will be able to:

- Use the fundamental features of Revit MEP
- Set up, import and link projects
- Represent volumes using spaces and zones, and run an energy analysis
- Create HVAC systems with air terminals and system equipment
- Create automatic and manual layout of ducting
- Specify mechanical duct settings and routing preferences
- Produce new duct types
- Create colour fills and legends
- Create HVAC building component and key schedules
- Create Callout, Detail, Drafting views
- Annotate and produce sheets for construction documentation

Pre-requisites

This course is intended for Mechanical HVAC designers, drafters, modellers and engineers new to Revit MEP. Basic understanding of BIM and technical knowledge of HVAC systems will be useful for this course.

Training Course Subjects

Delivery Mode: 2 Day (0930-1600)

Revit MEP Basics

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

Viewing the Model

Working with Views and View Templates
Controlling Object Visibilities
Create Section and Elevation Views
Working with 3D views

Starting a New project

Setting up a project
Importing AutoCAD 2D dwg into Revit
Working with Project and Shared Parameters
Linking a Revit Architecture Project
Define Discipline Settings

Using Collaboration Tools

Copy/Monitor
Running an Interference Check

Building Performance Analysis

Spaces & Zones
Heating & Cooling Loads Analysis

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

Creating HVAC Systems

Create a HVAC system and generate automatic layout
Generate Manual layout
Create new duct type

Detailing and Drafting

Creating Callout views
Create Detail and Drafting Views

Annotations and Schedules

Working with text and tags
Adding Dimensions
Creating HVAC legends
Working with Schedules

Construction Documentation

Create Titleblocks
Working with Sheets
Revisioning