

Course Title : Revit MEP 2015 - Fundamentals

Duration : 3 days / 24 hours

Cost : 12,000 THB Per Person

Courseware description

This courseware covers the basics of the Revit MEP, from schematic design through construction documentation. Participants are introduced to the concepts of Building information Modeling and the tools for parametric design and documentation.

Course Objectives : After completing this class, you will be able to:

- Describe Building Information Modeling methodology.
- Use the different parts of the Revit MEP user interface and work with different types of Revit elements and families.
- Manage the different views and change their properties, control the visibility and appearance of elements in different views, and work with section, elevation, and 3D views.
- Set up a project using different templates, link Revit models, share projects using worksets, define discipline settings, and import and edit DWG details.
- Create spaces and zones in a Revit model.
- Analyze an analytical model for conducting a building performance analysis, define heating and cooling loads information, and calculate heating and cooling loads.
- Create HVAC systems, generate HVAC system layouts, and create and modify ductwork using Revit MEP tools.
- Layout and create piping and plumbing systems.
- Create electrical circuits, wiring, and conduit layouts.
- Monitor changes in files of other disciplines linked to Revit MEP and check and fix interference conditions.
- Work with callout, detail, and drafting views.
- Work with text and tags, dimensions, legends, and schedules.
- Add titleblocks to a sheet, update the project information in a titleblock, and work with sheets.
- Create an architectural model suitable for use as a background for engineering layouts.
- Use architectural drawings and projects as a background for engineering layouts

Who Should Attend :

The courseware is designed for any user of Revit MEP

Prerequisites :

No previous CAD experience is necessary. However, Architectural design, drafting, or engineering experience is useful. Participants should have an understanding of the common computer programs like Microsoft Windows XP or Microsoft Windows 7.

Assessment Tests :

- Create the MEP building model from links the architectural model. (100%)

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Topics: The main topics covered in the course include:

- Introduction to Revit MEP, its interface, including viewing, drawing, and editing commands.
- Working with linked architectural files.
- Creating and modifying views.
- Understanding Revit MEP systems in general.
- Creating spaces and zones.
- Analyzing heating and cooling loads.
- Working with the HVAC module to add air terminals, mechanical equipment, and create HVAC systems.
- Working with the Piping module to add mechanical equipment as well as creating hydronic piping systems.
- Working with fire protection systems.
- Working with fixtures and piping systems in the Plumbing module.
- Working with components, circuits, cable tray, and conduits in the Electrical module.
- Creating and annotating construction documents.
- Adding tags and creating schedules.
- Detailing in Revit MEP.

Day 1

1. Introduction to Revit MEP
 - Building Information Modeling (BIM) with Revit MEP
 - Overview of the Revit MEP Interface
2. Basic Drawing and Editing Tools
 - General drawing tools
 - Editing Revit elements
 - Basic modifying tools
3. Starting Revit MEP Projects
 - Starting Revit projects
 - Linking Revit models
 - Copying and monitoring linked files
4. Views
 - Working with views
 - Adding callout views
 - Setting the view display
5. Autodesk Revit MEP Systems
 - About Revit MEP Systems
 - Working with Components
 - Creating Systems - Overview
 - Analyzing Systems

Day 2

6. HVAC Systems
 - About HVAC systems
 - Adding terminals and mechanical equipment
 - Creating duct systems
 - Automatic ductwork layouts
7. Hydronic Piping Systems
 - About hydronic piping systems
 - Creating hydronic systems
 - Automatic piping layouts
 - Analyzing piping systems
8. Plumbing Systems
 - About plumbing systems
 - Working with plumbing systems
 - Fire protection systems

Day 3

9. Electrical Systems
 - About electrical systems
 - Placing electrical components
 - Creating electrical circuits
 - Electrical panel schedules
10. Construction Documents
 - Setting up sheets
 - Placing and modifying views on sheets
11. Annotating Construction Documents
 - Working with text & dimensions
 - Adding detail lines and symbols
 - Creating legends
12. Tags and Schedules
 - Working with tags
 - Creating schedules
13. Detailing in Revit MEP
 - Setting up detail views
 - Creating details
 - Annotating details
14. Revit MEP conclude & Revit MEP assessment tests after training
 - Revit MEP model assessment tests