

Revit MEP Fundamentals enables students to create full 3D MEP project models and place them in working drawings. The class focuses on the basic tools that the majority of users will need to work with Revit MEP. Topics include Interface, design and process workflow, setting up projects, as well as discipline specific topics on HVAC, Piping/Plumbing, and Electrical design.

Prerequisite: Knowledge of the Windows operating environment and drafting & design techniques.

Introduction to BIM & Revit

BIM and Autodesk Revit, Overview of the Interface, Starting Projects, Viewing Commands

Basic Drawing and Modifying Tools

Using General Tools, Editing Elements, Basic Modifying Tools & Additional Tools

Starting an MEP Project

Starting an MEP Project with Revit, Linking Revit Models, Copying & Monitoring Linked Files, Setting Up Levels

Views

Duplicating Views, Adding Callout Views, Setting the View Display, Creating Elevations, Creating Sections, Working with Ceilings

MEP Systems

About Revit MEP Systems, Working with Components, Creating Systems – Overview, System Graphics, Connecting Components, Analyzing Systems

Spaces and Zones

Creating Spaces, Zones & Color Schemes

Performance Analysis

Introduction to Energy Analysis, Preparing for Energy Analysis, Analyzing Heating & Cooling Loads, Exporting Secondary Analysis

HVAC Systems

About HVAC Systems, Adding Air Terminals and Mechanical Equipment, Adding Ductwork, Creating Duct Systems, Automatic Duct layouts

Hydronic Piping Systems

About Hydronic Piping Systems, Adding Mechanical Equipment, Drawing Pipe, Creating Hydronic Systems, Automatic piping layouts, Fire Protection Systems

Plumbing Systems

About Plumbing Systems, Adding Plumbing Fixtures, Drawing piping for Plumbing Systems, Working with Plumbing Systems

Electrical Systems

About Electrical Systems, Placing Electrical Components, Creating Electrical Circuits, Cable Trays and Conduits, Electrical Panel Schedules

Construction Documents

Setting Up Sheets, Placing & Modifying Views, Printing Sheets

Annotating Construction Documents

Working with Dimensions, Working with Text, Adding Detail Lines and Symbols, Creating Legends

Tags and Schedules

Adding Tags, Rooms and Room Tags, Working with Schedules

Detailing in Revit

Setting Up Detail Views, Adding Detail Components, Annotating Details

What students are saying about our courses:

“I loved how the instructor focused the materials to our needs and uses. Great course!”
- *Matthew Crockett, Aquaterra Environmental Solutions*

“The instructor was very knowledgeable and ensured everyone grasped the concepts before moving on. He answered all questions even if they were outside the scope of the class. Great Job!”
- *Vern Howard, Honeywell FM&T*

* The suggested course duration is a guideline. Course topics and timeline may be modified by the Instructor based upon the knowledge and skill level of the course participants.