



This course covers the basics of Autodesk® Revit® MEP focusing on design and documentation of the Electrical systems. The class includes a cross-discipline collaboration and coordination between engineering and architectural teams. The course includes hands-on exercises representing real-world design scenarios.

Prerequisites: MSWindows experience. Electrical engineering experience required.

Register Online: [Click here](#)

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Or call our Training Department at 888.662.7238.

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Course Objectives

Students will learn the recommended workflows and basic skills required to navigate Revit MEP and use its tools to create and modify electrical systems (Lighting and Power).

Upon completion of the course, the student will be able to:

Set up a project; produce a building information model of a commercial design for the electrical discipline
Work with electrical devices, conduit, cable tray, circuits, demand factors, electrical loads, and panel schedules.

Extract 2D drawings for construction documents.

Use the Worksharing features to collaborate with multiple users on a single project.

Document a project with all necessary floor plans, ceiling plans, sections, details, sheets, annotations, general notes and keynotes.

Who Should Attend

This course is designed for new users of Revit MEP.

Course Outline

Day 1

Getting Started

Building Information Modeling (BIM)
Revit MEP User Interface and Terminology
File Types and Templates
Navigation and Selection
Type Parameters vs. Instance Parameters

Setting up a Project in Revit MEP

Linking the Architectural Background

Coordinating Building Location – Project vs. Shared Coordinates

Working with Datum – Grids and Levels

Getting Notifications when the Architectural Design Changes – Copy/Monitor

Visualizing the Architectural Room Names and Numbers – Creating Spaces

Best Practices on Managing Views

Creating and Managing Floor Plans, Sections, and 3D views

Working with Visibility Graphics, View Range, Section Boxes, and Hide/Isolate

Day 2

Preparing the Model for Electrical Design

Electrical settings

Working with Demand Factors

Working with Load Classifications

Defining Conduit/Cable Tray Types with the Appropriate Conduit/Cable Tray Fittings

Creating Power Plans and Lighting Plans

Adding Panels, Transformers and Switchboards

Placing Electrical Devices and Lighting Fixtures

Associating Load Classifications with Electrical Devices

Working with Circuits

Drawing Wire and Home Runs

Populating Data (Required Lighting Levels) Using Revit Schedules

Working with Conduit and Cable Tray

Scheduling Conduit and Cable Tray Runs Length

Annotating Power and Lighting Plans

Customizing Annotations – Tags

Day 3

Working in a Multiplatform Environment

Enabling Worksharing

Creating Central Files and Local Files

Understanding “Ownership of Elements”

Controlling Visibility of Worksets

Restoring Back up Files

Documenting the Project

Importing/Linking CAD Details

Exporting to DWG File Format

Creating Keynotes and General Notes Views

Working with Text and Dimensions

Dividing the Project on Areas and Creating Area Legends – Dependant Views

Working with Sheets

Plotting and Batch Plotting

Overview