

microsol resources corporation

214 west 29th street
new york, ny 10001
tel: 212.465.8734
fax: 212.967.0910

one penn center
1617JFK boulevard
suite 1111
philadelphia, pa 19103
Tel: 215.557.0770
Fax: 215.557.0772

www.microsolresources.com

REVIT MEP FUNDAMENTALS

Tuition: \$1195.00/per person

Prerequisite: Working knowledge of a Windows OS and basic MEP engineering / design skills

Available Times: 3 days, 9:00am-5:00pm

OBJECTIVE

This course introduces you to the fundamentals of Autodesk Revit MEP. By creating a single project database in a fully integrated project model, Revit MEP uses bi-directional associativity to ensure all data, graphics, details, schedules, drawings, and sheets are current and coordinated throughout the project lifecycle.

TOPICS INCLUDE

BUILDING INFORMATION MODELING The class starts by exploring the Building Information Modeling (BIM) methodology and the process in which it is used for MEP engineering.

REVIT MEP BASICS This section will introduce attendees to the basic Revit MEP concepts that will be used to work most efficiently throughout the design process.

VIEWING THE MODEL The class will explore how to manage views, control object visibility in views, and create elevation, section, and 3D views.

STARTING A NEW PROJECT Attendees learn how to link Revit Architectural and Structural models to Revit MEP projects, how to share a project using worksets, and how to use existing DWG detail elements in projects.

DEFINING VOLUMES This section teaches attendees how to use both zone and space information for heating and cooling loads analyses to determine the energy demands of a building.

BUILDING PERFORMANCE ANALYSIS Using an analytical model, the class defines the heating and cooling loads in the Revit model and then interprets the spaces and zones for building performance analysis.

HVAC SYSTEMS In this section, attendees work with the Revit MEP tools that allow quick creation, modification, and inspection of HVAC systems that meet regulatory standards.

PIPING SYSTEMS Using Revit MEP tools, attendees create supply and return piping, adjust the size of piping, document piping, and check piping components for interferences with other building components.

PLUMBING SYSTEMS The class uses Revit MEP tools to create a plumbing system by placing plumbing fixtures and then assigning them to a particular system, and then utilizing layout tools, determine the best routing scheme to connect system components.

FIRE PROTECTION SYSTEMS Attendees learn how to create, layout, and specify the size of various fire protections systems, as well as how to ensure that the components do not interfere with other components in a building.

Autodesk®

Gold Partner

Architecture, Engineering & Construction

Autodesk®

Authorized Government Partner

Consulting Services Partner

Authorized Training Center

Authorized Certification Center



Registered AIA Provider

ELECTRICAL SYSTEMS In this section, attendees use Revit MEP tools to model electrical systems, learning how to quickly and effectively place devices and wires, assign them to electrical circuits and panels, track lighting levels, balance panel loads, and model cable tray and conduit.

WORKING WITH ARCHITECTS AND ENGINEERS The class will explore collaboration techniques provided by Revit MEP to help users work efficiently and accurately with Architects and Engineers in other disciplines and locations.

WORKING WITH A TEAM Using linked models the class will learn worksharing techniques, which allows simultaneous access to a shared model through the use of a central model. Worksharing will also be used to work with a single model that has multiple team members working on it.

ANNOTATIONS AND SCHEDULES In this section, attendees learn how to work with text, tags, and dimensions in a building model, then create a legend and work with different types of schedules and templates.

CONSTRUCTION DOCUMENTATION Attendees learn how to create and work with title blocks, how to create construction document sets by creating sheets and adding title blocks to sheets, and finally how to print sheets to paper or save them to electronic files.