

## Course Outline

# Autodesk Revit MEP Essentials

### Day 1 - Introduction, Overview of BIM, Revit and Interface

- Opening, saving and synchronizing projects
- Using Keyboard Shortcuts
- Selecting views to work on
- Using temporary views, making templates including a coordination template, and temporarily applying template properties
- Visibility/ Graphics
- Going over the ribbon and what each item does
- Section Boxes
- Sections
- Using the Filter
- Nudge, Split, Align, move, copy and rotate elements
- Temporary Hide/ Isolate
- Tagging
- Using the worksharing monitor
- Worksets

### Day 2 - Mechanical, Plumbing and Electrical Elements

- Creating 3D models of each system type
- Placing equipment
- Where to find families
- How to load families
- Coordinating with other trades
- Hosted vs. non-hosted families
- Routing options
- Using fittings and accessories
- Creating families from a cube
- Editing families for specific projects
- Adding electrical elements, piping and ductwork connections to families
- Understanding your view range and how it affects visibility of elements in your drawings
- Adjusting the view range to achieve the results you desire
- Differences in view range for ceiling vs floor plans
- Using plan region views for isolated areas that require a different view range from the rest of the drawing

### Day 3 - Project Set-up and Delivery

- Linking in Revit models
- Setting up Levels
- Copy and Monitor Elements
- Coordinating linked models
- Views, callouts and sections
- Creating Spaces and room naming
- Sheet set-up
- Creating and managing Revisions in Revit
- Clouding Revisions
- Tagging revisions with Deltas
- "For Construction" Stamp information
- Linking DWGs into Revit projects
- Linking PDFs into Revit Projects
- Understanding the differences between importing DWGs and linking them along with best practices
- Exporting DWGs and DWFs from Revit projects
- Printing sheets from Revit to the printer
- Printing sheets from Revit to PDF
- Export and Print settings