

Revit MEP

Syllabus

1. MEP Essentials

- Linking Discipline Models
- Using the System Browser
- Using the Project Browser
- Creating and Modifying Levels
- Controlling Datum Visibility
- Using Scope Boxes
- Creating and Tagging Spaces
 - Placing Space
 - Separators
- Creating Color Schemes for Lighting Averages
- Creating Legends
- Creating HVAC Zones
- Setting and Showing the Active Work Plane
- Creating Reference Planes
- Modeling Accurately with Length and Angle
- Working with Object Snaps and Snap Increments
- Modify Ribbon Tools
- Using Visualization Aids When Working in 3D Views
- Tagging MEP Elements
- Coordinating Between Mechanical and Electrical Disciplines
- Interference Check
- Interference Check Documentation
- HVAC Airside
- Adding Mechanical Equipment
- Placing Air Terminals
- Placing Air Terminals on Ducts
- Creating Duct Systems
- Splitting Duct Systems
- Duct Settings
- Modeling Ductwork

- Placing Duct Placeholders
- Defining Duct Routing Preferences Generating Duct Layouts
- Sizing Ductwork
- Adding Duct Accessories
 - Modifying Ductwork and Fittings
- Adding Duct Insulation
- Checking Duct Systems
- Analyzing Duct Systems and Pressure Loss Reports
- Understanding HVAC Airside Scheduling
- Understanding HVAC Airside Tags

3. General Piping

- Pipe Settings
- Modeling Piping
- Placing Pipe Placeholders
 - Defining Pipe Routing Preferences
- Adding Pipe Accessories
- Modifying Piping and Fittings
- Adding Pipe Insulation
- Creating Parallel Pipes
- Modeling Sloped Pipe

4. HVAC Piping

- Creating Piping Systems
- Generating Pipe Layouts
- Sizing Pipe
- Analyzing Piping Systems
- Creating Pipe Pressure Loss Reports
- Understanding HVAC Piping Tags
- Plumbing
 - Adding Plumbing Fixtures
 - Using Copy and Monitor for Plumbing Fixtures
 - Placing Pipe Connectors
- Creating Plumbing Piping Systems
- Splitting Piping Systems
- Creating Piping System Types
- Working with Piping Components

- Laying Out Plumbing Systems
- Creating Risers and Underfloor Views
- Understanding Plumbing Scheduling
- Understanding Plumbing Tags


5. Electrical

- Electrical Settings
- Specifying Demand Factors and Load Classifications
- Cable Tray and Conduit Settings
- Voltage Definitions
- Distribution Systems
- Assigning Secondary Systems
- Wire Types and Sizes
- Modeling Cable Trays Modeling Conduit
- Creating Parallel Conduits
- Adding Electrical Devices Annotation Symbols
- Applying Panel Schedule Template
- Mounting Heights Parameter
- Electrical Label Parameters
 - Fire Alarm Devices
 - Grounding Symbols
 - Settings for Grounding Wire
- Power
- Reference Planes and Levels
- Placing Electrical Fixtures
 - Creating and Naming Circuits
 - Wiring Settings
 - Wiring Circuits
 - Checking Circuits
 - Circuit and Pole Breakers
 - Creating Power Circuits
 - Creating Lighting Circuits
 - Creating Switch Systems
- Annotation - Tagging
- Wire Placement

- Panel Naming
- Creating Panel Schedules
- Editing Panel Schedule Template Options

6.Lighting

- Lighting Fixtures and Photometric Data
- Placing Lighting Fixtures - Reference Planes
- Placing Unhosted Lighting Fixtures
- Emergency Lighting Fixtures
- Luminaire Schedules
- Mounting Parameters
- Using Copy and Monitor for Lighting Fixtures
- Adding Lighting Switches
- Creating a Switch System
- Powering Lighting Systems Analyzing Lighting Systems
- Rendering Views to Analyze Lighting
- Managing Lighting with Groups
- Understanding Lighting Scheduling
- Lighting Tags
- Cable Trays, Conduit and Busway
- Placing Cable Tray or Conduit
- Placing Conduit Underground
- Selecting Types
- Adding/Changing Fittings
- Routing Methods
- Changing Justifications
- Avoiding Obstacles
- Creating Service Type Filters
- Spot Elevations for Bottom of Cable Tray
- Annotation - Tagging
- Creating Parallel Conduit Runs
- Views and Sheets
- Plan Views
- Reflected Ceiling Plan Views
- Creating Section Views

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- Segmenting Section Views
 - Creating Callout Views
 - Sketching a Callout View
 - Creating Drafting Views
 - Setting Up Detail Views
 - Importing Details
 - Creating a Reference View
 - Duplicating Views
 - Creating Match lines and View References
 - Creating and Using Sheets
 - Working with Viewports on Sheets
 - Aligning Views on Sheets
 - Using a Sheet List
 - Creating Custom Title blocks
 - Creating a Key Plan
 - Creating Revision Clouds and Tags
 - Managing Sheet Issues and Revisions
 - Adding a Revision Schedule to a Title block
 - Printing and Publishing
 - Printing and Managing Print Settings
 - Printing to PDF
 - Publishing Files to Buzzsaw
 - Managing Your Projects
 - Managing Project Information
 - Specifying a Project Location and Weather
 - Understanding Coordinate Systems
 - Relocating a Project
 - Rotating True North and Project North
 - Mirroring a Project
 - Managing Project Browser View Organization
 - Using Parameters and Filters for Browser Organization
 - Managing Project Browser Sheet Organization
 - Project Template Files
 - Transferring Project Standards

- Deleting Unused Items from a Project
- Setting the Starting View
- Interoperability
- Importing and Managing Image Files
- Linking and Importing CAD Files
- Managing Linked CAD Files
- Controlling the Coordinates of Linked CAD Files
- Managing Imported CAD Files
- Controlling Line Weights in Imported CAD Files
- Working with Point Clouds
- Working with IFC
- Exporting to 2D CAD Formats
- Exporting to 3D CAD
 - Exporting Views to Image Files
- Exporting to IFC

