Engineers 3D

IT & ENGINEERING SERVICES

TRAINING   PROJECTS   PLACEMEMNTS

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REVIT MEP

1.Introduction of Revit Mep

a) Revit MEP Interface
b) Central File Creation
c) Keyboard Shortcuts
d) Working With Views
e) File Concepts – Project Files And Templates
f) File Concepts – Family Files And Templates
g) File Concepts – System Families
h) File Concepts – In-Place Families

2.Basic Creation of Tools

a) Opening A Revit MEP Project
b) Viewing The Model – 2D
c) Viewing The Model – 3D
d) Systems Tab – HVAC And Mechanical
e) Systems Tab – Plumbing And Piping
f) Systems Tab – Electrical

3.Links, Imports, and Groups

a) Linking AutoCAD DWG files

b) Creating topography from a DWG link
c) Understanding CAD inserts
d) Creating a group
e) Creating Revit links
f) Rotating and aligning a Revit
g) Managing links

4. Building Performance Analysis

    a) Energy Settings
    b) Default Building Type Settings
    c) Analyzing Heating And Cooling Loads
    d) Exporting For Secondary Analysis

5. Systems

    a) The System Browser
    b) Graphic Overrides
    c) Checking Systems
    d) System Inspector

6. HVAC

    a) Duct Sizing
    b) Mechanical Settings – Ducts
    c) Air Terminals And Mechanical Equipment
    d) Duct Insulation And Lining
    e) Duct Insulation And Lining
    f) Adding And Modifying Fittings
    g) Duct Systems
    h) Duct Systems

7. Hydronic Piping System

    a) Hydronic Piping Systems
    b) Mechanical Settings – Pipes
    c) Piping Systems
    d) Adding Mechanical Equipment
    e) Adding Pipes
    f) Parallel Pipes
    g) Modifying Pipes

h) Sloping Pipes
i) Adding And Modifying Fittings
j) Mechanical Systems – Hydronics

8. Plumbing Systems

a) Mechanical Settings – Pipes
b) Piping Systems
c) Adding Plumbing Fixtures
d) Pipes
e) Parallel Pipes
f) Modifying Plumbing Fixtures
g) Piping Systems

9. Fire Protection Systems

a) Sprinklers
b) Sprinkler Systems
c) Sprinkler Pipe Layouts

10. Electrical Systems

a) Electrical Settings
b) Electrical Components – Lighting Fixtures
c) Electrical Components – Electrical Equipment
d) Electrical Components – Electrical Devices
e) Creating Power Circuits
f) Creating Lighting Circuits
g) Creating Switch Systems
h) Cable Tray
i) Conduit

11. Detailing

a) Detailing
b) Adding Detail Lines
c) Legends

12. Coordinating the model

a) Interference Check
b) Coordination Review

13. Views

a) Controlling Visibility
b) Initial Plan Views
c) View Duplication
d) Elevations
e) Sections
f) Creating Callouts
g) Ceiling Plans
h) Section Box
i) Scope Box

14. Spaces and Zones

a) Spaces And Zones
b) Creating Spaces
c) Space Separation Boundaries
d) Modifying Spaces
e) Space Tags
f) Area And Volume Calculations
g) Creating Zones
h) The System Browser And Zones
i) Color Schemes

15. Schedules and Tags

    a) Understanding tags
    b) Adding schedule views
    c) Modifying schedule views
    d) Creating a key schedule

16. Annotation and Details

    a) Adding text
    b) Adding dimensions
    c) Adding symbols
    d) Adding legend views
    e) Creating a detail callout
    f) Using arrays to duplicate objects parametrically
    g) Adding filled and masking regions

17. Basic Families Creation

    a) Understanding families
    b) Creating a new family from a template
    c) Using reference planes, parameters, and constraints
    d) Adding solid geometry
    e) Cutting holes using void geometry
    f) Adding blends
    g) Completing the family

18. Sheets, Plotting, and Publishing

    a) Adding sheets
    b) Outputting sheets to a DWF file
    c) Exporting to AutoCAD
    d) Plotting and creating a PDF
    e) Live Architecture projects