Course Plan: Revit MEP Essentials (14 Hours)

Instructor: Eng. Abdul Wahed Hassoun

Target Audience: Beginners and junior engineers in MEP

1. Course Essentials

Title:

Revit MEP Essentials: HVAC, Plumbing & Firefighting Design

Short Description:

Learn to model and document HVAC, plumbing, and firefighting systems using Revit - from concept to shop drawings.

Learning Objectives:

- Start MEP projects using Revit templates

- Design HVAC, plumbing, and firefighting layouts

- Annotate drawings and generate BOQs

- Produce professional shop drawings

- Understand basic system coordination in Revit

2. Curriculum Outline (14 Hours)

Module 1: Revit MEP Basics (1.5 hrs)

- What is BIM and Revit MEP

- Revit Interface & MEP Templates

- Project Setup & Units

Module 2: HVAC System Design (3 hrs)

- HVAC Basics & System Families

- Air Terminal Placement & Duct Routing

- Mechanical Equipment & Duct Sizing

- Tagging, Annotation, and Views

Module 3: Plumbing System Design (3 hrs)

- Plumbing Fixture Setup

- Cold & Hot Water Systems

- Drainage and Venting

- Piping Layout and Elevation Techniques

Module 4: Firefighting System Design (2 hrs)

- Firefighting System Components

- Sprinkler Layout in Revit

- Pipe Routing & Connections

Module 5: Documentation & Sheets (2 hrs)

- Creating Legends & Schedules

- Creating Sheets and Printing

- Annotations, Tags, and Notes

- Export to PDF/DWG

Module 6: Final Project + Tips (2.5 hrs)

- Full Project Review (Small Villa or Floorplan)

- Shop Drawing Creation

- Submission Tips & Best Practices