

AUTODESK REVIT MEP ADVANCED TRAINING

Objectives

This 2-day course covers the advance of Autodesk Revit MEP application. It is to teach trainee the commands and tools necessary for design on mechanical, electrical, and plumbing (MEP) systems. After completing this guide, trainee will be able to:

- ✓ Import and export data between AutoCAD
- ✓ Link Revit models, coordinate and monitor changes in a current project and a linked project, and check and fix interference conditions
- ✓ Create, use, and manage work sets
- ✓ Publish Revit MEP files to DWF files
- ✓ Create working and correct Revit Families for inclusion in Revit Projects, inclusive but not limited to:
 - Mechanical Equipment
 - Lighting Fixtures
 - Air Diffusers

Training Programme Day 1

Chapter	Topic	Duration	Time
Chapter 1	 Introduction to Revit Families Concepts on System, loadable & in place family Concepts on family category, type & instance Concepts on the family connector The usage of the family templates 	1 -Hour	09.00 AM – 10.00 AM
Chapter 2	 Get started with family creation The usage of extrusion, blend, revolve, swept, swept blend & void forms Concepts on the X, Y, Z planes and adding planes 	1-Hour	10.00 AM – 11.00 AM
Chapter 3	Family Parametric Box Parameters on Width, Length & Height Family type	1-Hour	11.00 AM – 12.00 PM

Chapter 4	Family Parametric Electrical DB Board • Adding electrical connector		
	 Adding Cable tray connector Adding conduit connector Adding and modifying family parameters (Detailing) 	1-Hour	12.00 PM – 01.00 PM
Chapter 5	 Family Parametric Valve and symbols Adding pipe connector Adding details Adding symbols Visibility Configuration 	2-Hour	02.00 PM – 04.00 PM
Chapter 6	 Family Parametric Air Terminals and symbols Adding duct connector Adding ducting details Adding symbols Visibility Configuration 	1-Hour	04.00 PM – 05.00 PM

Training Programme Day 2

Chapter	Topic	Duration	Time
Chapter 7	 Family Pumps based on CAD drawings Importing family-based CAD drawings Assigning plane Creating forms using Forms tools Adding connectors and Pump detailing 	2-Hour	09.00 AM – 11.00 AM
Chapter 8	 Family Air terminals based on CAD drawings Importing family-based CAD drawings Assigning plane Creating forms using Forms tools Adding connectors and Air terminals detailing 	2-Hour	11.00 AM – 01.00 PM

Chapter 9	 Family Nested Volume Control Damper (VCD) Casing creation using Form tools Creating blades Actuator with detailing Parametric parameters Adding detailing to nested family Adding connectors 	2-Hour	02.00 PM – 04.00 PM
Chapter 10	Introduction to Work-sharing Collaboration Worksets and Worksharing concept Setting up worksharing Setting up worksets Assigning worksets Updating models among worksets Synchronization and model updates	1-Hour	04.00 PM – 05.00 PM