

# PARADIGM TRAINING



Autodesk Revit MEP 2017 Essentials
earn about Building Information Modelling and the tools for parametric MEP ystems design and documentation using Autodesk Revit® MEP 2015. Begin the nree-day guide by learning the fundamental features of Autodesk Revit MEP, nen progressing through system design, system analysis and construction ocumentation.
Days
To teach users the concepts of Building Information Modelling and introduces the tools for parametric engineering design and documentation using Autodesk Revit MEP 2015. Users should be able to complete their first Autodesk Revit MEP project after completing this class.
Building Information Modelling     Building Information Modelling for MEP Engineering     Introducing Revit as a BIM tool  UI Tour, Project Navigation and View Creation     Exploring the User Interface     Placement & Properties of Grids, Levels & Dimensions     Working with Revit Elements and Families     Managing Views     Controlling Object Visibility     Working with Section and Elevation Views     Creating and Modifying 3D Views  Element Selection & Manipulation     Element Properties & Manipulation     Instance & Type Parameters     Modify tools, Nodes & Snaps  Visibility Control & Categorisation     Project Wide Settings     View Specific Overrides     Element Specific Overrides     Individual Line Overrides     Individual Line Overrides  Establishing a Project     Project Units – Common, HVAC, Electrical & Piping     MEP settings, Symbols & Schematic Design     Project Commencement & Collaboration     Linking CAD & Revit Architecture
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## **Introduction to Building Elements**

- Basic Wall definitions, floors, roofs & ceilings
- Sketching Rules and relating slabs to walls & supports
- Slabs slopes, Roof design and Ceiling definitions
- System Family editing

## **Equipment, Fixtures & Fittings**

- Family Terminology
- Component Placement
- Selecting the correct Level
- MEP Workflow

# **Introducing Systems**

- Setting up a Project Profile
- Main Systems
  - Mechanical
  - Electrical
  - o Plumbing
- System Browser

#### **Basic Schedules and Legends**

- Scheduling Components
- Style Schedules
- Legends

## **Mechanical Systems**

- Mechanical Settings
- Duct Types & fittings
- Creating duct & Piping systems
- Insulating & lining ductwork
- Plant & equipment
- Mechanical Pipework, flanges and fittings
- Checking and Fixing Interference Conditions

#### **Electrical Systems & Circuits**

- Equipment, devices & fixtures
- Wiring, cable tray and conduit modelling
- Circuits and Switch Systems

# **Plumbing Systems**

- Plumbing settings
- Plumbing fixtures
- Creating plumbing systems
- Creating sanitary systems
- Domestic hot & cold water systems
- System browser

# Spaces, Zones, Areas & Volumes

- Differentiate between Spaces, Zones, Areas & Volumes
- Defining spaces, bounding elements, tags & schedules
- Computation for areas and volumes
- Using Space data outside of Revit
- Colour schemes and Legends

	2D Drafting & Annotation  Introducing Annotation tools and component categories  Detail component libraries  Repeating Details  Lines & arcs  Text, Tags & Keynotes  Sheet Compilation & Publication  Project browser organisation  Creating & populating sheets  Working with schedules  Publishing & document management
PRE- REQUISITES:	It is recommended that students have a working knowledge of the following: MEP engineering principles.
MATERIALS PROVIDED:	Autodesk Revit MEP 2017 Training Manual Exercise Files