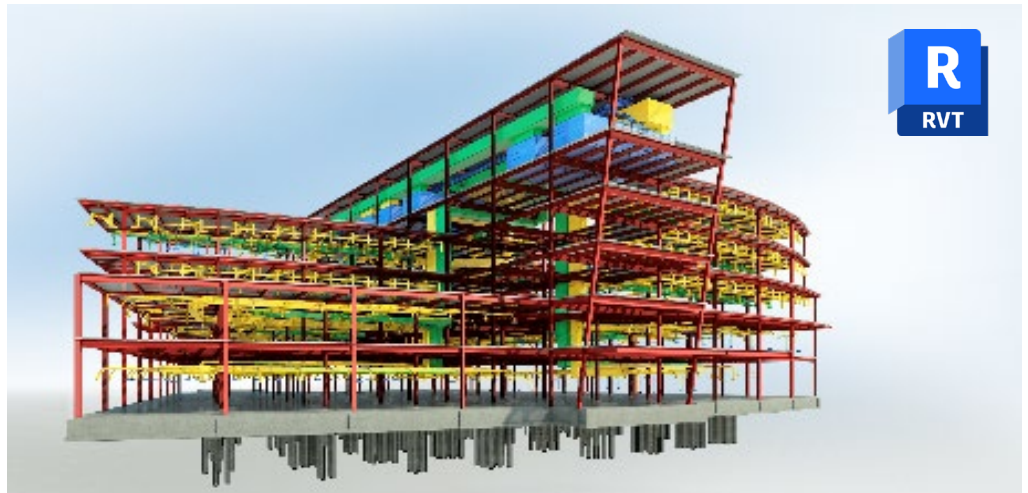# Revit Essentials *for Mechanical, Electrical, Plumbing (MEP)*
Training course outline

Autodesk Revit MEP is used by mechanical and electrical engineers and plumbers to design the most complex building systems.

Revit supports Building Information Modelling (BIM), to help drive accurate design, analysis, and documentation of efficient building systems from concept through construction.

Course summary

Teaches the concepts behind Building Information Modelling (BIM), and the use of Revit's tools for designing MEP systems, such as heating, cooling and piping.

Duration

Three days.

Who should attend?

This course is ideal for engineers new to Revit who need to develop high quality, accurate mechanical, electrical and/or plumbing designs.

Prerequisites

No prior Revit, BIM or 3D modelling knowledge is required.

You should have a basic understanding of the discipline in which you're going to be using Revit, for example M&E.

Experience using a CAD application such as AutoCAD is beneficial, but not essential.

In-class or live online

You can attend in-person at our centres, or participate live online from your place of work or home.

To read about our approach to online training, see armada.co.uk/liveonline.

General information

Armada is a long-standing Autodesk authorised Training Centre (ATC), and our courses are accredited by Autodesk.

Courses are hosted by Autodesk Certified Instructors (ACIs) with vast experience of using the application professionally.

Whilst attending training at our centres, you'll have the use of a computer running licensed software to practice the techniques taught.

Refreshments and lunch are provided.

Course fees can be paid by card or bank transfer. We accept purchase orders from UK-registered companies and public sector organisations.

Course materials and certificate

You'll receive:

- A comprehensive training guide and practice files.
- An e-certificate confirming successful completion of an accredited *Revit MEP Essentials* course.

Method of delivery

Training is designed for the busy professional, being short and intensive and combining lecture and demonstration. Practical exercises carried out under guidance help you learn the techniques taught.

You have ample opportunity to discuss specific requirements with the trainer.

After course support

Following training, you're entitled to 30 days' email support from your trainer.

Further information

See armada.co.uk/course/revitmep.

Course syllabus

See over.

Follow-on courses

- Advanced Revit for MEP (2 days).
- Revit Families and Content Creation (2 days).

Course syllabus

Day 1 – General Revit techniques

Topics	Sub-topics
Building Information Modelling (BIM)	Introduction to BIM
Revit basics	Exploring the user interface Working with Revit elements and families
Viewing the structural model	Working with views Controlling object visibility Working with elevation and section views Working with 3D views
Starting a new project	Setting up a project Setting up view templates Defining discipline settings Importing typical DWG details Linking a Revit model Coordinating linked projects Adding levels Creating grids

Days 2 and 3 – Techniques specific to MEP

Topics	Sub-topics
Starting Revit MEP projects	Linking architectural projects Copying and monitoring elements Setting up and modifying Levels
Understanding Revit MEP systems	About MEP systems Creating systems - overview Connecting components
Spaces and zones	Creating spaces Creating zones and colour schemes
Energy analysis	Preparing a project for energy analysis Analysing the heating and cooling loads Exporting for secondary analysis
Piping systems	About piping systems Creating piping systems

Topics	Sub-topics
HVAC systems	About HVAC systems Adding air terminals and mechanical equipment Adding ductwork Creating and modifying duct systems Automatic ductwork layouts
Electrical systems	About electrical systems Placing electrical components Creating electrical circuits Cable trays and conduit Electrical panel schedules
Annotating construction documents	Adding detail lines and symbols
Tags and schedules	Adding tags Creating schedules Modifying schedules