

I AUTODESK

Autodesk Revit MEP Fundamentals - Virtual Course

This is an "online" version of the Autodesk Revit MEP Fundamentals training course, delivered remotely over a number of individual half-day sessions. The course has been designed to teach the concepts and principles of creating 3D parametric models of MEP systems from engineering design through construction documentation. The course is intended to introduce delegates to the software user interface and the basic HVAC, electrical, and piping/plumbing components that make the Autodesk Revit MEP software a powerful and flexible engineering modelling tool.

Prerequisites

As this course is delivered via a web-link, those attending will need to have access to a workstation, connected to the internet, and with Revit installed. A twin screen setup and a headset with microphone is also highly recommended. As the course introduces the fundamental skills in learning the Autodesk Revit MEP software. It is highly recommended that those attending have experience and knowledge in MEP engineering and its terminology, as well as an understanding of the essentials of basic MS-Windows use.

Objectives

SESSION ONE

Chapter 1 - Introduction to BIM and Autodesk Revit

09:30 Session 1.1

- Workflow and BIM (presentation)
- Overview of the User Interface (guided hands-on)

10:15 – 10:25

- Break

10:25 Session 1.2

- Starting Projects (presentation)
- Viewing Commands (guided hands-on)

11:10 – 11:20

- Break

Chapter 2 – Basic Sketching and Modify Tools

11:20 Session 1.3

- Using General Sketching Tools (guided hands-on)
- Selecting and Editing Elements (guided hands-on)

12:00 – 12:10

- Break

12:10 Session 1.4

- Working with Basic Modification Tools (guided hands-on)
- Working with Additional Modification Tools (guided hands-on)

13:00

- End of Session 1

SESSION TWO

Chapter 3 – Starting Systems Projects

09:30 Session 2.1

- Linking and Importing CAD Files (presentation)
- Linking Revit Models (how to, followed by exercise)
- Setting up Levels (guided hands-on)

10:15 – 10:25

- Break

10:25 Session 2.2

- Copying and Monitoring Elements (how to, followed by exercise)
- Coordination Review (how to, followed by exercise)
- Batch Copying Fixtures (presentation)

11:10 – 11:20

- Break

Chapter 4 – Working with Views

11:20 Session 2.3

- Modifying the View Display (guided hands-on)
- Duplicating Views (how to, followed by exercise)

12:00 – 12:10

- Break

12:10 Session 2.4

- Callout Views (how to, followed by exercise)
- Elevations and Sections (how to, followed by exercise)

13:00

- End of Session 2

SESSION THREE

Chapter 5 and 6 – Setting up Spaces and Heating and Cooling Loads Analysis

09:30 Session 3.1

- Preparing a Model for Spaces (guided hands-on)
- Adding Spaces (Guided Hands-on)

10:15 – 10:25

- Break

10:25 Session 3.2

- Creating Zones (Guided Hands-on)
- Colour Fill Legends (Guided Hands-on)
- Analysing the Heating and Cooling Loads (presentation)

11:10 – 11:20

- Break

Chapter 7,8,10 – Working with Mechanical Systems

11:20 Session 3.3

- Review of Mechanical Settings (Guided Hands-on)
- Adding Mechanical Equipment and Air Terminals (Guided hands-on)

12:00 – 12:10

- Break

12:10 Session 3.4

- Creating Systems (Guided Hands-on)
- Creating Automatic Layouts (Guided Hands-on)

13:00

- End of Session 3

SESSION FOUR

Chapters 7, 8, 10 – Working with Mechanical Systems

09:30 Session 4.1

- Creating and modifying Duct Layouts (Guided Hands-on)

10:15 – 10:25

- Break

10:25 Session 4.2

- Creating and modifying Duct Layouts (Continued)

11:10 – 11:20

- Break

11:20 Session 4.3

- Creating and Modifying Pipe Layouts (Guided Hands-on)

12:00 – 12:10

- Break

12:10 Session 4.4

- Analysing Systems (Guided Hands-on)

13:00

- End of Session 4

SESSION FIVE

Chapter 11 – Electrical Systems

09:30 Session 5.1

- Electrical Settings (guided hands-on)
- Placing Electrical Components (how to, followed by exercise)

10:15 – 10:25

- Break

10:25 Session 5.2

- Creating Electrical Circuits (how to, followed by exercise)

11:10 – 11:20

- Break

11:20 Session 5.3

- Setting up Panel Schedules (how to, followed by exercise)

12:00 – 12:10

- Break

12:10 Session 5.4

- Adding Cable Tray and Conduit (how to, followed by exercise)

13:00

- End of Session 5

SESSION SIX

Chapter 9 – Plumbing Networks

09:30 Session 6.1

- Adding Plumbing Fixtures and Equipment (guided hands-on)

10:15 – 10:25

- Break

10:25 Session 6.2

- Adding Plumbing Pipes (how to, followed by exercise)

11:10 – 11:20

- Break

11:20 Session 6.3

- Modifying Plumbing Pipes (how to, followed by exercise)

12:00 – 12:10

- Break

12:10 Session 6.4

- Adding Fire Protection Networks (how to, followed by exercise)

13:00

- End of Session 6

SESSION SEVEN

Chapter 14 – Adding Tags and Schedules

09:30 Session 7.1

- Adding Tags (how to, followed by exercise)

10:15 – 10:25

- Break

10:25 Session 7.2

- Working with Schedules (how to, followed by exercise)

11:10 – 11:20

- Break

Chapter 14 – Annotating Construction Documents

11:20 Session 7.3

- Working with Dimensions (how to, followed by exercise)

12:00 – 12:10

- Break

12:10 Session 7.4

- Working with Text (how to, followed by exercise)
- Creating Legends (how to, followed by exercise)

13:00

- End of Session 7

SESSION EIGHT

Chapter 15 – Creating Details

09:30 Session 8.1

- Setting up Detail Views (Guided Hands-on)
- Adding Detail Components (Guided Hands-on)
- Annotating Details (Guided Hands-on)

10:15 – 10:25

- Break

10:25 Session 8.2

- Detail View Exercise

11:10 – 11:20

- Break

Chapter 12 – Creating Construction Documents

11:20 Session 8.3

- Setting up Sheets (Guided Hands-on)
- Placing and Modifying Views on Sheets (Guided Hands-on)

12:00 – 12:10

- Break

12:10 Session 8.4

- Printing Sheets (Guided Hands-on)

13:00

- End of Session 8

DURATION

8 Sessions

COURSE CODE

RMEP-FS-OL

COURSE COST**£995.00**Applies per person on an on-line scheduled course
(excludes VAT)

Get in touch

Please contact us on [01992 807 444](tel:01992807444) or [via email](#) where you can speak to one of our training specialists who can answer any questions you may have and/or make a reservation.