

I AUTODESK

Autodesk Revit Structure Fundamentals - Virtual Course

This is an "online" version of the Autodesk Revit Structure Fundamentals training course, delivered remotely over a number of individual half-day sessions. The course has been designed to teach the concepts and principles from building design through construction documentation using Autodesk Revit Structure. The course is intended to familiarise delegates with the tools necessary to create, modify, and document a parametric Revit model.

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. It is highly recommended that delegates have experience and knowledge in structural design and its terminology. Familiarisation with the basic use of a PC running Microsoft Windows is also necessary.

Objectives

SESSION ONE

09:30 Session 1.1

- Overview of Building Information Modelling
- Understanding the User Interface

10:15 – 10:25

- Break

10:25 Session 1.2

- Opening and Navigating through existing Project (guided hands-on)

11:10 – 11:20

- Break

11:20 Session 1.3

- Understanding Revit File Formats (Projects and Families)
- Starting a new structural project
- Link and Manage AutoCAD drawings (guided hands-on)

12:00 – 12:10

- Break

12:10 Session 1.4

- About Grids and Levels
- Creating Grids and Levels (guided hands-on)

13:00

- End of Session 1

SESSION TWO

09:30 Session 2.1

- Adding dimensions and controlling grid & level positioning (guided hands-on)
- Propagating Grids and Levels (guided hands-on)
- Understanding Copy/Monitor (Overview by instructor)

10:15 – 10:25

- Break

10:25 Session 2.2

- Loading Structural Column Families
- Creating Structural Columns (guided hands-on)
- Placing off-grid columns (guided hands-on)

11:10 – 11:20

- Break

11:20 Session 2.3

- Creating In-Situ Concrete Floors
- Creating Structural Walls

12:00 – 12:10

- Break

12:10 Session 2.4

- Creating additional in-situ floor & Wall types
- Joining concrete elements
- Creating Sections

13:00

- End of Session 2

SESSION THREE

09:30 Session 3.1

- Creating Steel Columns (Guided hands-on)
- Placing Columns by Grid
- Level of Detail (Guided Hands-on)

10:15 – 10:25

- Break

10:25 Session 3.2

- Creating Steel Beams (Guided Hands-on)
- Working with primary and secondary framing (Guided Hands-on)

11:10 – 11:20

- Break

11:20 Session 3.3

- Creating Steel Beams Part 2 (Guided Hands-on)
- Understanding Structural Framing Properties (Guided Hands-on)

12:00 – 12:10

- Break

12:10 am Session 3.4

- The Analytical Model and Structural Analysis (Instructor Presentation)
- Creating Beam Systems (Guided Hands-on)

13:00

- End of Session 3

SESSION FOUR

09:30 Session 4.1

- Coordinating your project – Shared Coordinates (Instructor demonstration)
- Geospatial Coordination (Guided Hands-on)

10:15 – 10:25

- Break

10:25 Session 4.2

- Creating Structural Openings (Guided Hands-on)
- Creating roof framing (Guided Hands-on)

11:10 – 11:20

- Break

11:20 Session 4.3

- Working with Structural Foundations (Guided Hands-on)

12:00 – 12:10

- Break

12:10 Session 4.4

- Working with Structural Foundations Continued (Guided Hands-on)

13:00

- End of Session 4

SESSION FIVE

09:30 Session 5.1

- Creating in-situ stairs (guided hands-on)
- Adding blockwork walls for core (guided hands-on)
- Controlling the analytical model (guided hands-on)

10:15 – 10:25

- Break

10:25 Session 5.2

- Creating a beam schedule (guided hands-on)
- Creating type marks (guided hands-on)
- Adding tags to beams (guided hands-on)

11:10 – 11:20

- Break

11:20 Session 5.3

- Adding spot levels and coordinates to your model (guided hands-on)
- Adding slope symbols and other structural symbols (guided hands-on)

12:00 – 12:10

- Break

12:10 Session 5.4

- Creating call outs (create call out of core area) (guided hands-on)

13:00

- End of Session 5

SESSION SIX

09:30 Session 6.1

- Adding dimensions to core walls and openings (guided hands-on)

10:15 – 10:25

- Break

10:25 Session 6.2

- Adding detail components and detail lines (guided hands-on)
- Using filled regions

11:10 – 11:20

- Break

11:20 Session 6.3

- Adding text notes and leaders
- Preparing views for placement on sheets (guided hands-on)

12:00 – 12:10

- Break

12:10 Session 6.4

- Creating drawing sheets
- Placing views on sheets
- Plotting and drawing outputs

13:00

- End of Session 6

Forthcoming dates

Select a course and complete the [enquiry form](#) or contact us on [01992 807 444](tel:01992807444) or via [email](#) to speak to one of our training specialists who can answer any questions you may have and/or make a reservation on your selected course.

DATE	LOCATION	TRAINER	VERSION	STATUS	PER PERSON
14 Dec 2020	Online	Lawrence Hooker	2021	Available	£885.00

All prices are per-person on a scheduled course and exclude VAT.

Please note that the course details above, may be subject to change at short notice.

DURATION

6 Sessions

COURSE CODE

RE-FUN-OL

COURSE COST

£885

Applies per person on an on-line scheduled course (excludes VAT)

Get in touch

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