

Autodesk® Revit® Structure Complete Guide

Part of the world-leading Revit platform, **Revit® Structure Complete Guide** is designed specifically for Structural Engineers and Technicians, where the advantages of BIM are combined with unprecedented levels of multi-discipline communication potential and an easy workflow for handling client revisions and design development. Import / export links to all the large structural analysis tools as well as links to detailing and manufacturing ensure that Revit provides a platform for well-managed and coordinated deliverables from concept through to fabrication.

In a curriculum which is consistent across the disciplines, users are guided around the software interface and core tool-set before being taken through a series of Let Me Try exercises which not only provide an insight into the Revit approach, but also explain best practice protocols and practical techniques along the way.

User's prerequisites

You don't need any previous experience with Autodesk® Revit® Structure to take this course.

Course Outline

Introduction to Autodesk Revit Structure

- Basic Concepts and Principles
- The Revit Structure User Interface
- Building Information Modeling and Revit Structure, Getting Help

Getting Started with a Structural Project

- Starting a New Structural Project
- Snaps Tool, Opening, Saving and Closing a Project
- Options Dialog Box

Setting up a Structural Project

- Creating Project Templates
- Using Levels
- Using Grids
- Working with Reference Planes

Structural Columns and Walls

- Structural Columns
- Structural Walls

Foundations, Beams, Floors, and Open Web Joists

- Understanding Foundations
- Adding Foundations
- Structural Floors
- Beams and Open Web Joists

Editing Tools

- Creating Selection Sets
- Moving and Copying
- Rotating, Mirroring and Arraying
- Additional Editing Tools, Creating Groups

Documenting Models and Creating Families

- Dimensioning
- Adding Text and Tags
- Creating Families

Standard Views, Details, and Schedules

- Standard Views
- Callout Views
- Drafting Details
- Graphical Column Schedules

3D Views, Sheets, Analysis, Reinforcements, and Massing

- 3D Views, Generating Shadows and Solar Studies
- Working with Sheets
- Understanding the Analytical Model
- Working with Analytical Models
- Adding Reinforcements, Linking Building Models
- Introducing Massing
- Editing Massing Geometry
- Creating Building Elements from Massing Geometry

Linking Revit Models with Robot Structural Analysis

- Linking Revit Models with Robot Structural Analysis

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