

Autodesk Revit Structure 2010

Learning Autodesk Revit Structure 2010

Description

This guide covers the basics of Autodesk Revit® Structure 2010. Users are introduced to the concepts of Building Information Modeling and the tools for parametric design, analysis, and documentation. They learn the fundamental features of Autodesk Revit Structure, learn to use the 3D parametric design tools for creating and analyzing a project, and finish with construction documentation and design visualization.

This guide offers both imperial and metric hands-on exercises representing real-world structural design scenarios.

Pages	438
Trial CD	Yes
Onscreen Exercises	Yes
Prerequisites	<ul style="list-style-type: none">• Structural engineering, drafting, or architectural design experience is highly recommended. No previous CAD experience is necessary.• A working knowledge of Microsoft® Windows® Vista, Microsoft® Windows® XP, or Microsoft® Windows® 2000.

Class Information

Suggested Duration	3 days
Objective	To teach users the concepts of Building Information Modeling and introduce the tools for parametric design, analysis, and documentation using Autodesk Revit Structure. Users will be able to complete their first Autodesk Revit Structure project after completing this class.
Who Should Attend	New Autodesk Revit Structure users or other Autodesk software users who want to learn essential elements of Autodesk Revit Structure.

In this Guide

Building Information Modeling

- Building Information Modeling for Structural Engineering

Revit Structure Basics

- Exploring the User Interface
- Working with Structural 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

- Starting a Project
- Adding and Modifying Levels
- Creating and Modifying Grids

Creating Structural Columns and Walls

- Working with Structural Columns
- Working with Structural Walls

Creating Frames

- Adding Floor Framing
- Working with Beams and Beam Systems
- Working with Structural Steel Frames
- Working with Structural Concrete Beams

Creating Floors and Roofs

- Adding Floors
- Creating Roofs and Adding Structural Framing

Creating Foundations

- Adding Foundations

Stairs and Ramps

- Creating Stairs
- Creating Ramps

Creating Plan Annotations and Schedules

- Adding Dimensions
- Working with Text and Tags
- Creating Legends
- Working with Schedules

Creating Detailing

- Working with Detail Views
- Adding Concrete Reinforcement
- Working with Drafting Views
- Working with CAD Details

Creating Construction Documentation

- Working with Sheets and Titleblocks
- Printing Sheets
- Exporting Content to CAD Formats

Note: The suggested class duration is a guideline. Topics and duration may be modified by the instructor based upon the knowledge and skill level of the class participants.