

**3 Day Training Class \$1,025.00 - Topics include:**

- Introduction to the Autodesk Revit Structure software
- Basic Drawing and Editing Tools
- Setting up Levels and Grids
- Working with Views
- Starting a structural project based on a linked architectural model
- Adding structural Columns and Walls
- Adding Foundations and structural slabs
- Structural Reinforcement
- Beams and Framing Systems
- Project Practices to reinforce learning
- Construction Documents
- Annotating Construction Documents
- Detailing
- Scheduling

This training guide is intended to introduce students to the software's user interface and the basic building components that make the Autodesk Revit Structure software a powerful and flexible structural modeling tool. Our goal is to familiarize you with the tools necessary to create, document, and print your parametric model. Examples and practices are designed to reflect as many different building types as possible.

Outline:**Chapter 1 Introduction to Autodesk Revit Structure**

- Overview of the Program
- Working with Projects
- Understanding the Interface
- Viewing Tools

Chapter 2 Setting Up Levels and Grids

- Creating and Using Levels
- Placing Grid Lines

Chapter 3 Working with Views

- Creating Elevations
- Creating Sections
- Creating Callouts

Chapter 4 Editing Elements

- Select Elements for Editing
- Work With Temporary Dimensions

Chapter 5 Modify Commands**Chapter 8 Adding Foundations**

- Strip Footings
- Step and Spread Footings
- Piers and Pilasters
- Structural Slabs

Chapter 9 Structural Reinforcement

- Structural Reinforcement
- Setting the Cover Depth
- Adding Rebar
- Area Reinforcement
- Path Reinforcement

Chapter 10 Beams and Framing Systems

- Adding Beams and Beam Systems
- Modifying Beams
- Labeling Framing

Chapter 11 Brace Frames

- Framing Elevations
- Adding Bracing

Chapter 12 Floors, Shafts, and Stairs

- Creating Floor Systems
- Creating Shaft Openings
- Framing Shaft Openings
- Understanding Stairs and Ramps



- Move and Copy
- Rotate
- Array
- Mirror
- Align
- Split
- Offset
- Trim and Extend

Chapter 6 Creating an Architectural Underlay

- Working with Architectural Underlays
- Importing and Linking CAD Files
- Linking in Projects Created in the Autodesk Revit Architecture Software
- Copying and Monitoring Elements

Chapter 7 Adding Columns and Walls

- Placing Structural Columns
- Placing Slanted Structural Columns
- Drawing and Modifying Walls

Chapter 13 Annotation

- Working with Text
- Dimensioning

Chapter 14 Detailing

- Setting Up Detail Views
- Creating Details
- Annotating Details
- Patterning

Chapter 15 Scheduling

- Column Schedules
- Modifying Schedules
- Other Schedules
- Legend Views

Chapter 16 Sheets and Revisions

- Creating Sheets
- Placing and Modifying Views on Sheets
- Adding Revisions
- Printing Sheets

Prerequisites:

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This training guide introduces the fundamental skills in learning how to use the Autodesk Revit Structure software. It is highly recommended that students have experience and knowledge in structural design and its terminology.