

Revit Structure Fundamentals is intended to introduce students to the software's user interface and the basic building components that make Revit a powerful and flexible structural modeling tool. Students will become familiar with the tools necessary to create, document, and print their parametric model.

Prerequisite: Knowledge of the Windows operating environment and drafting & design techniques.

Introduction to BIM & Revit

BIM and Autodesk Revit, Overview of the Interface, Starting Projects, Viewing Commands

Basic Drawing and Modifying Tools

Using General Tools, Editing Elements, Basic Modifying Tools & Additional Tools

Starting a Structural Project

Linking and Importing CAD Files, Linking in Revit Models, Setting up Levels, Copying and Monitoring Elements, Coordination Review

Structural Grids & Columns

Adding Structural Grids, Placing Structural Columns

Foundations

Modeling walls, Adding Wall Footings, Creating Piers and Pilasters, Adding Isolated Footings

Structural Framing

Modeling Structural Framing, Modifying Structural Framing, Adding Trusses

Working with Views

Setting the View Display, Duplicating Views, Adding Callout Views, Elevations and Sections

Adding Structural Slabs

Modeling Structural Slabs, Creating Shaft Openings

Structural Reinforcement

Structural Reinforcement, Adding Rebar, Modifying Rebar, Reinforcing Walls, Floors, and Slabs

Structural Analysis

Preparing Projects, Viewing Analytical Model, Adjusting Analytical Models, Placing Loads

Construction Documents

Setting Up Sheets, Placing & Modifying Views, Printing Sheets

Annotating Construction Documents

Working with Dimensions, Working with Text, Adding Detail Lines and Symbols, Creating Legends

Detailing in Revit

Setting Up Detail Views, Adding Detail Components, Annotating Details

Scheduling

Structural Schedules, Graphical Column Schedules, Working with Schedules, Creating Schedules

What students are saying about our courses:

"I loved how the instructor focused the materials to our needs and uses. Great course!"
- *Matthew Crockett,*
Aquaterra Environmental Solutions

"The instructor was very knowledgeable and ensured everyone grasped the concepts before moving on. He answered all questions even if they were outside the scope of the class. Great Job!"
- *Vern Howard,*
Honeywell FM&T

* The suggested course duration is a guideline. Course topics and timeline may be modified by the Instructor based upon the knowledge and skill level of the course participants.