24
AIA/CES Learning Units

Revit Structure Fundamentals

Course | 3 days *

Class Hours | 8:30am - 4:30pm

Revit Structure Fundamentals enables students to create full 3D structural models as well as the corresponding analytical models that can be exported into third party analysis software. Students will learn how to create and modify structural components, export and import models into structural analysis software, create construction details, and prepare documents for printing.

Prerequisite: Basic knowledge of Windows Operating System, drafting techniques, and computer keyboard skills.

Mid-West CAD
Your Partner in CAD Design

Autodesk Authorized Training Center

Visit mwcad.com for a complete class schedule or call us at 800-279-3221.

*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.

What students are saying about our courses:

"The training course was perfect. The instructor did a great job in showing us short cuts in the software that I wasn't aware of and that should be very beneficial for upcoming projects. It was exactly what I needed to advance my understanding of Revit. Everyone did a great job!"
- Don VenJohn, Gossen Livingston

This course counts toward AIA CEUs.

Revit Structure Basics

Exploring the User Interface
- Introduction, The User Interface

Setting Up Levels and Views
- Creating Levels, Elevations, Sections, & Callouts

Revit Structure Design Tools

Modifying Objects
- Selection, Filters, Dimensions, Nudge & Pinning

Modify Commands
- Move, Copy, Rotate, Array, Mirror, Align, Split, Offset, Trim

Starting a Structural Project

Creating an Architectural Overlay
- Import CAD Files, Linking Revit Architecture

Starting a Structural Model
- Grid Lines, Structural Columns, Masonry Bearing & Shear Walls

Adding Foundations
- Strip, Step, & Spread Footings, Piers and Pilasters, Structural Slabs

Framing Systems

Beams and Framing System
- Adding Beams, Labeling Framing

Brace Frames
- Framing Elevations, Cross Bracing

Floors
- Creating Floor Systems, Modeling Pour Stop Conditions

Elevator Shafts, Stairs, and Ramps

Shafts and Floor Openings
- Creating Shaft Walls, Creating Shaft Openings

Stairs and Ramps
- Creating Stairs and Ramps

Annotation, Detailing, and Scheduling

Annotation
- Working with Text, Dimensions

Detailing
- Creating Details, Beam Coping, Label Building Materials

Scheduling
- Column Schedules, Footing/Pier Schedules, Legend Views

Working with Schedules
- About Schedules, Creating Schedules

Creating Sheets and Printing

Sheets and Printing
- Creating Sheets and Printing