

Revit Structure Essentials Bootcamp

This instructor-led bootcamp provides a focused introduction to Autodesk Revit for structural design, emphasizing project setup, model coordination, structural element development, and construction documentation workflows. Participants learn how to create and organize a coordinated structural model, develop core structural systems, and produce construction documents through hands-on practice exercises aligned with real-world project workflows.

Learning Objectives:

- Navigate the Revit interface and manage structural project files
- Set up projects using linked files, levels, grids, and coordinated views
- Use families, sketching tools, and core modification workflows
- Model columns, foundations, framing, slabs, and reinforcement
- Create coordinated sheets, annotations, tags, schedules, and details
- Produce a basic structural construction document set

Course Length: 16 Hours

Day 1: Introduction and Project Setup

- 1.1 Open and Review a Project
- 1.2 Start a Project and Link Files
- 1.3 Set Up Levels
- 1.4 Add Grids
- 1.5 Duplicate Views and Set the View Display
- 1.6 Add Callout Views
- 1.7 Create Elevations and Sections
- 1.8 Work with Components
- 1.9 Sketch and Edit Elements
- 1.10 Work with Basic Modify Tools
- 1.11 Work with Additional Modify Tools

Day 2: Coordination and Foundations

- 2.1 Place Structural Columns
- 2.2 Copy and Monitor Elements
- 2.3 Coordinate Linked Models
- 2.4 Model Walls and Wall Footings
- 2.5 Add Isolated Footings

Day 3: Framing, Slabs, and Reinforcement

- 3.1 Model Structural Framing
- 3.2 Modify Structural Framing
- 3.3 Add Trusses
- 3.4 Model Structural Slabs
- 3.5 Create Shaft Openings
- 3.6 Add Rebar
- 3.7 Reinforce Structural Elements

Day 4: Construction Documentation

- 4.1 Set Up Sheets
- 4.2 Work with Dimensions
- 4.3 Work with Text
- 4.4 Create Legends
- 4.5 Add Tags and Symbols
- 4.6 Work with Schedules
- 4.7 Create a Graphical Column Schedule
- 4.8 Create a Detail Based on a Section Callout
- 4.9 Create a Bracing Detail