

Revit Fundamentals for Structure Overview

This four-day class will enable students to create full 3D structural project models and set them up in working drawings. Students will learn how to use the Revit Structure workspace and interface to generate structural projects based on linked architecture creating structural elements necessary to support a structure such as structural columns and walls, foundations and structural slabs, Structural reinforcement, beams, trusses, and framing systems. Students will also learn about Analytical models and placing loads.

LEARNING OUTCOMES

- Navigate the Revit workspace and interface
- Work with the basic sketching tools, modifying tools, and datum elements such as levels and grids
- Link CAD and Revit files as the basis of a project
- Create 3D building model with structural columns, framing systems, walls, foundations, and slabs
- Set up sheets for plotting with text, dimensions, details, tags, and schedules

COURSE LENGTH 4 DAYS

PREREQUISITES

1. Basic Windows experience and knowledge of the Structural Engineering industry.
2. Students must have their own Autodesk software installed and working before the first day of class. We cannot troubleshoot software installation during class time.

COURSE TOPICS

Introduction to BIM and Autodesk Revit
Starting a Project
Working with Views
Revit Families
Basic Sketching and Modify Tools
Adding Columns
Foundations
Structural Framing

Adding Structural Slabs
Structural Reinforcement
Structural Reinforcement (cont.)
Creating Construction Documents
Working with Annotations
Creating Schedules
Creating Details

- All classes are delivered live online via Microsoft Teams, 7:00 am–2:30 pm PT / 10:00 am–5:30 pm ET.
- Students must have their own Autodesk software installed and working before the first day of class. We cannot troubleshoot software installation during class time.
- All classes include access to an e-book training manual.
- All students who complete the course are eligible to receive an Autodesk Certificate of Completion.
- Course outcomes, pre-requisites, and topics may change based upon software version.