
Course Title: Revit Structure Advanced

Course Code: REV-2S

Duration: 2 Days

Courseware Description

This courseware covers a wide range of advanced topics in Revit® Structure, continuing to build on the concepts introduced in the Revit Structure Essentials course. Students learn about detailing and detail components, rebar, families, analytical analysis, and collaborating on a design with other professionals.

Objectives

The primary objective of this courseware is to teach students the powerful tools and advanced techniques for creating complex designs, and about detailing and detail components, rebar, families, analytical analysis, and collaborating on a design with other professionals or team members using Revit Structure.

Who Should Attend

This courseware is designed for experienced users of Revit Structure.

Prerequisites

It is recommended that students have a working knowledge of:

- Drafting, design, or engineering.
- Students should have completed the **Revit Structure Introduction (REV-1S)** course or have equivalent experience using Revit Structure. Structural engineering or architectural design experience is highly recommended
- Microsoft® Windows® XP or Microsoft® Windows® 2000

Course Outline

Working with Detail Components and Managing Details

- Creating a 2D Detail Component
- Creating and Editing Detail Component Groups
- Managing a Library of Typical Details

Working with Rebar

- 2D Detail Components Versus 3D Rebars
- Creating Rebars in Beams and Columns
- Using Area and Path Reinforcement in Slabs and Walls

Working with Families

- Creating a Slab on Metal Deck
- Creating a Precast Hollow Core Slab
- Creating a Tapered Moment Frame
- Creating a 3D Steel Gusset Plate
- Using Steel Stiffeners
- Creating a Stepped Footing

Creating Trusses

- Modifying an Open Web Joist
- Creating a New Truss from the Library
- Attaching a New Truss to a Roof

Exploring Analytical Tools

- Working with the Analytical Model
- Adjusting the Analytical Model
- Checking for Analytical Consistencies
- Adding and Modifying Boundary Conditions
- Analyzing and Updating the Model with Robot
- Analyzing and Updating the Model with RISA
- Analyzing and Updating the Model with ADAPT

Working with Clients and Consultants Using DWG Files

- Importing and Exporting to AutoCAD
- Importing and Exporting to AutoCAD Architecture

Working with Clients and Consultants Using Revit Architecture

- Linking Revit Models
- Coordinating and Monitoring Changes
- Checking and Fixing Interference Conditions

Multi-User Worksharing

- Creating and Using Workset
- Managing Worksets

Sharing Your Design Using DWF

- Importing and Exporting Using DWF
- Working with DWF Markup Files

Importing and Exporting Data with IFC Format

- Importing and Exporting Using IFC Format