AUTODESK REVIT STRUCTURE FUNDAMENTALS

CSG Training Centre | Authorized Autodesk Training Centre | Certiport Authorized Testing Centre

FOR WHOM
Structural Drafters, Structural Engineers

PRE-REQUISITION
Working knowledge of Windows Operating Systems.
Working knowledge of Structural design and terminology (recommended).

DURATION | VERSION
3 DAY(S), Version 2022

COURSE OBJECTIVES
To take full advantage of Building Information Modeling, the Autodesk® Revit®: Fundamentals for Structure Training has been designed to teach the concepts and principles of creating 3D parametric models of structural buildings from engineering design through construction documentation.

This Training is intended to introduce learners to the user interface and the basic building components of the software that makes it a powerful and flexible structural modeling tool. The goal is to familiarize learners with the tools required to create, modify, analyse, and document the parametric model. The examples and practices are designed to take the learners through the basics of a full structural project, from linking in an architectural model to construction documents.

We also provide real live project situations solving tips by Trainers who possesses actual site experiences and live project datasets for you to work-on.

COURSE TOPICS
Introduction to BIM and Autodesk Revit
1. BIM and Autodesk Revit
2. Overview of the Interface
3. Starting Projects
4. Viewing Commands

Basic Sketching and Modify Tools
1. Using General Sketching Tools
2. Editing Elements
3. Working with Basic Modify Tools
4. Working with Additional Modify Tools

COURSE TOPICS
Starting Structural Projects
1. Linking and Importing CAD Files
2. Linking in Revit Models
3. Setting Up Levels
4. Copy and Monitoring Elements
5. Coordinating Linked Models

Working with Views
1. Modifying the View Display
2. Duplicating Views
3. Adding Callout Views
4. Creating Elevations and Sections

Grids and Structural Columns
1. Adding Grid Lines
2. Loading Components
3. Placing Structural Columns

Foundations
1. Modeling Walls
2. Adding Wall Footings
3. Creating Piers and Pilasters
4. Adding Isolated Footings

Structural Framing
1. Modeling Structural Framing
2. Modifying Structural Framing
3. Adding Trusses

Adding Structural Slabs
1. Modeling Structural Slabs
2. Creating Shaft Openings

Structural Reinforcement
1. Structural Reinforcement
2. Adding Rebar
3. Modifying Rebar
4. Reinforcing Walls, Floors, and Slabs

Structural Analysis
1. Preparing Projects for Structural Analysis
2. Viewing Analytical Models
3. Adjusting Analytical Models
4. Placing Loads

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COURSE TOPICS

Creating Construction Documents

1. Setting Up Sheets
2. Placing and Modifying Views on Sheets
3. Printing Sheets

Annotating Construction Documents

1. Working with Dimensions
2. Working with Text
3. Adding Tags
4. Adding Detail Lines and Symbols
5. Creating Legends

Creating Details

1. Setting Up Detail Views
2. Adding Detail Components
3. Annotating Details

Scheduling

1. Structural Schedules
2. Graphical Column Schedules
3. Working with Schedule

COURSE TOPICS

Introduction to Worksharing

1. Introduction to Worksharing

Additional Tools

1. Selection Sets
2. Placing Slanted Structural Columns
3. Editing Wall Joins
4. Creating Slab Types
5. Creating Rebar Types
6. Editing Plan and Section Profiles
7. Working on Guide Grids on Sheets
8. Revision Tracking
9. Annotating Dependent Views
10. Importing and Exporting Schedules
11. Creating Building Component Schedules
12. Creating a Repeating Detail

Project – Concrete Structure

1. Start a Structural Project
2. Create Foundation Elements
3. Frame a Concrete Structure

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