



This course covers the basics of Autodesk® Revit® Structure, from schematic design through construction documentation. Students are introduced to the concepts of Building Information Modeling and the tools for parametric design, analysis and documentation. This course offers both imperial and metric hands-on exercises representing real-world design scenarios.

Prerequisites: No previous CAD experience is necessary. However, structural design, drafting or engineering experience is highly recommended. It is also recommended that the student have a working knowledge of Microsoft® Windows® XP, Microsoft® Windows® 2000, or Microsoft® Windows® NT 4.0.

Register Online: [Click here.](#)

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Course Objectives

The primary objective of this course is to teach students the concepts of Building Information Modeling and introduce the tools for parametric design, analysis and documentation using Revit Structure.

Upon completion of the course, the student will:

Know the benefits of Building Information Modeling.

Use the fundamental features of Revit Structure.

Use the parametric 3D design tools for creating and analyzing projects.

Use the automated tools for documenting projects.

Have a level of comfort and confidence with Revit Structure through hands-on experience.

Who Should Attend

This course is designed to teach new users the essential elements of Revit Structure.

Course Outline

Day 1

Building Information Modeling

Building Information Modeling

Revit Structure Basics

Exploring the User Interface

Working with Structural Elements and Families

Viewing the Structural Model

Working with Views

Controlling Object Visibility

Creating Elevation and Section Views

Working with 3D Views

Starting a New Project

Creating Project Template

Adding and Modifying Levels

Creating and Modifying Grids

Modeling Structural Columns and Walls

Working with Structural Columns

Working with Structural Walls

Day 2

Modeling Structural Frames

Adding Floor Framing

Working with Beams and Beam Systems

Working with Structural Steel Frames

Working with Concrete Beams

Modeling Slabs and Roofs

Creating Structural Slabs

Creating Roofs and Adding Roof Framing

Modeling Foundations

Creating Spread Footings

Creating Wall Foundations

Working with Clients and Consultants Using Revit Architecture

Linking Revit Models

Coordinating and Monitoring Changes

Checking and Fixing Interference Conditions

Day 3

Creating Plan Annotations and Schedules

Adding Tags

Adding Dimensions, Symbols, and Text

Creating Legends

Working with Schedules

Creating Sections and Details

Adding Reinforcements and Detail Components

Adding Detail Lines and Detail Groups

Importing and Editing DWG Details

Adding Concrete Detail Components

Creating and Modifying Steel Details

Creating Construction Documentation

Working with Sheets and Titleblocks

Printing Sheets

Exporting Content to CAD Formats