

Course Title: Revit Structure Introduction

Course Code: REV-1S

Duration: 3 Days

Courseware Description

This courseware covers the basics of 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.

Objectives

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

After completing this course, the student will be able to:

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

Who Should Attend

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

Prerequisites

It is recommended that students have a working knowledge of:

- No previous CAD experience is necessary. However, structural engineering or architectural design experience is highly recommended
- Microsoft® Windows® XP or Microsoft® Windows® 2000

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|-----------------------|------------------------------|-------------------|--------------------------|---------------------------|
| Level 1 | Engineering House | Level 4 | Bldg B, Level 1, Suite 3 | Unit 1 |
| 255-259 Pacific Hwy | Level 3, 447 Upper Edward St | 37-41 Prospect St | 661 Newcastle St | 74 France St |
| North Sydney NSW 2060 | Brisbane QLD 4000 | Box Hill VIC 3128 | Leederville WA 6007 | Auckland 1001 New Zealand |

Building Information Modeling

- Building Information Modeling

Revit Structure Basics

- The Revit User Interface
- Working with Revit Elements and Families

Viewing the Structural Model

- Managing Views
- Controlling Object Visibility
- Creating Elevations and Sections
- Working with 3D Views

Starting a New Project

- Starting a Project
- Working with Levels
- Adding Grids

Creating Structural Columns and Walls

- Adding Structural Columns
- Adding Structural Walls

Creating Frames

- Adding Floor Framing
- Working with Beams and Beam Systems
- Creating Structural Steel Frames

Creating Slabs and Roofs

- Adding Floor Decks and Slabs
- Adding Roofs

Creating Foundations

- Adding Foundations

Additional Building Components

- Creating Stairs
- Creating Ramps
- Creating Elevator Pits

Creating Plan Annotations and Schedules

- Adding Tags
- Adding Dimensions, Symbols, and Text
- Creating Legends
- Creating Schedules

Creating Sections and Details

- Adding Structural Wall Sections and Reinforcement
- Adding Detail Lines and Detail Groups
- Importing Typical DWG Details
- Adding Concrete Detail Components
- Creating Steel Details

Creating Construction Documentation

- Working with Sheets
- Printing Sheets
- Exporting Content to CAD Formats

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