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**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

## Course Outline

### 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