



ACHIEVE MORE.

## Class Description

This course is intended to introduce students to the Revit Structure user interface and the basic building components that make Revit Structure a powerful and flexible structural modeling tool. Our goal is to familiarize you with the tools necessary to create, document, and print your parametric model. Examples and practices are designed to reflect as many different building types as possible. Pre-requisite: Windows experience and knowledge in structural design and its terminology.

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**Class length:** 3 Days

# Revit Structure 2018 Fundamentals



## Introduction to BIM and Autodesk Revit

- Building Information Modeling
- Overview of the Interface
- Standard Terminology
- Starting Projects
- Viewing Commands

## Basic Drawing & Editing Tools

- Using General Drawing Tools
- Editing Elements
- Working with Basic Modify Tools
- Working with Additional Modify Tools

## Setting up Levels and Grids

- Setting Up Levels
- Creating Structural Grids

## Working with Views

- Duplicating views
- Adding Callout Views
- Setting the View Display
- Elevation and Sections

## Starting Structural Projects

- Linking and Importing CAD Files
- Linking in Revit Models
- Copying and Monitoring Elements
- Coordination Review

## Adding Columns and Walls

- Placing Vertical Structure Columns
- Modeling Walls
- Modifying Walls

## Adding Foundations

- Creating Wall Footage
- Adding Isolated Footings
- Creating piers and Pilasters

## Adding Structural Slabs

- Creating Structural Slabs
- Creating Shaft Opening

## Structural Reinforcement

- Structural Reinforcement
- Adding Rebar
- Modifying Rebar
- Reinforcing walls, Floors, and Slabs

## Structural Framing

- Modeling Structural Framing
- Modifying Structural Framing
- Using Trusses

## Structural Analysis

- Preparing Projects for Structural Analysis
- Viewing Analytical Models
- Adjusting Analytical Models
- Placing Loads

## Project- Concrete Structure

- Start a Structural Project
- Create Foundation Elements
- Frame a Concrete Structure

## Creating Construction Documents

- Setting up Sheets
- Placing and Modifying View Sheets
- Printing Sheets

## Annotation Construction Documents

- Working with Dimensions
- Working with Text
- Adding Tags
- Adding Detail Lines and Symbols
- Creating Legends

## Creating Details

- Setting up Detail Views
- Adding Detail Components
- Annotating Detail

## Scheduling

- Structural Schedules
- Graphical Column Schedules
- Working with Schedules
- Creating schedules