

## Technical Education Services

### Autodesk Revit Family Creation for Structure

**Course Length: 1 day**

Building Information Modeling (BIM) is an approach to the entire building life cycle. Autodesk® Revit® for Structure is a powerful BIM program that supports the ability to coordinate, update, and share design data with team members throughout the design construction and management phases of a building's life. Families are the backbone of Autodesk Revit. They are the elements you add as you model a building and its services, as well as the tools you use as you are annotating views.

The objective of the Autodesk Revit Family Creation for Structure training course is to enable users who have worked with the software to expand their knowledge in creating custom system, in-place, and component families.

This Autodesk Revit course contains practices that are specific to the structure discipline.

#### Topics Covered

- Create custom wall and floor types.
- Set up a component family file with a parametric framework.
- Create family geometry.
- Create family types.
- Modify the visibility of components and incorporate additional family items, such as controls, and add additional parameters.
- Create specific families, including in-place families, profiles, annotations, and parameters.

This course also contains structural discipline-specific practices for families, including gusset plates, built-up columns, tapered concrete column, truss family, and tapered moment frame.

#### Prerequisites

You should be comfortable with the fundamentals of the Autodesk Revit software, as found in the Autodesk Revit: Fundamentals for Structure course. Knowledge of basic techniques is assumed, such as creating standard elements, copying and moving elements, and creating and working with views. Information on Collaboration Tools, Conceptual Design, and Site and Structural Design are covered in other courses.

*Course description shown for Autodesk Revit 2021. Topics, curriculum, and/or prerequisites may change depending on software version.*



## Training Guide Contents

### Introduction to Revit Families

#### Chapter 1: Custom System Families

- 1.1 Creating Wall, Roof, Floor, and Ceiling Types
- 1.2 Vertically Compound Walls
- 1.3 Stacked and Embedded Walls

#### Chapter 2: Component Family Concepts

- 2.1 Creating Component Families
- 2.2 Creating the Parametric Framework
- 2.3 Creating Family Elements
- 2.4 Creating Family Types

#### Chapter 3: Advanced Family Techniques

- 3.1 Additional Tools for Families
- 3.2 Visibility Display Settings

#### Chapter 4: Additional Family Types

- 4.1 Creating 2D Families
- 4.2 Creating Line-based Families
- 4.3 Creating In-Place Families
- 4.4 Working with Shared Parameters

#### Chapter 5: Creating Structural-Specific Families

## Cancellation Policy

The following cancellation policy shall apply to all training engagements, Live Online, Consulting Services and Dedicated/Custom Training:

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- Company reserves the right to reschedule or cancel the date, time and location of its class at any time. In the event that a Training Class is cancelled by Company, Customer is entitled to a full refund. Company shall not be responsible for any other loss incurred by Customer as a result of a cancellation or reschedule.
- For Customer cancellations when written notice is received (i) at least ten (10) business days in advance of the class, the Customer is entitled to a full refund of its payment or reschedule enrollment, (ii) less than ten (10) business days, Customer shall not be entitled to a refund, but shall receive a class credit to be used within three (3) months of the date of the original class.
- Student substitutions are acceptable with at least two (2) days prior notice to the class, provided substitution meets course prerequisites and is approved by Company's Training Coordinator ([trainingcoordinator@rand.com](mailto:trainingcoordinator@rand.com))
- For all Training orders, cancellation notices must be submitted to [trainingcoordinator@rand.com](mailto:trainingcoordinator@rand.com). Company is not responsible for any error in the delivery of the email notice. In the event of any reschedule of Consulting Services and/or Dedicated/Custom Training by Customer, Company will invoice Customer for all non-cancellable travel expenses.

To request more information or to see training locations, visit [www.imaginit.com/contact-us](http://www.imaginit.com/contact-us).

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