

# Revit® Family Creation

This two day hands-on class will look at some best practices and practical aspects for creating Revit families to standardize your organization's family library. It builds upon the basic concepts of utilizing Revit and helps users understand how to create quality, efficient Revit families. Students should be comfortable with the fundamentals of Revit as taught in one of the Revit Fundamentals courses. Knowledge of basic techniques is assumed, such as placing objects, copying and moving objects, and creating and working with views, etc.

The class is applicable to Revit Architecture, Revit Structure, and Revit MEP.

## Learning Objective

The objective of the Revit Family Creation class is to enable students who have at least a basic knowledge of Revit to increase their productivity by creating their own families to utilize in projects.

## Course Outline

- ✓ **Choosing the Best Template for the Family**
- ✓ **Setting Up a Family for Multi-Discipline Collaboration**
- ✓ **Using Reference Planes to Your Advantage**
  - Naming
  - Direction
  - Reference Options
- ✓ **Building Flexibility into a Family**
- ✓ **Amount of Detail Utilized in the Family**
- ✓ **Model Lines Versus Symbolic Detail Lines**
- ✓ **Nesting Families**
- ✓ **Usage of Parameters**
  - Shared Parameters
  - Instance-Based Parameters
  - Type-Based Parameters
  - Formulas and Calculations
  - Passing Parameter Values Between Host and Nested Families
  - Material Control
- ✓ **Creating Arrays Within the Family**
- ✓ **Using Reference Lines**
- ✓ **Keys to Rotating Items Inside Families**
- ✓ **Creating Type Catalogs**
- ✓ **Controlling Visibility**
  - Objects
  - Linework
  - Nested Families
- ✓ **Incorporation of Autodesk Seek Standards**
- ✓ **Adding Connectors**

The instructor may vary the topics and outline depending on the students participating in the class or other situations.