

Revit Architecture “Revit Families”

Duration:

2 days

This course is intended primarily for Architects and Building Designers using the Revit Architecture platform.

NB - The modules in the course are largely independent of one another. Depending on the time available and the needs of a particular class, the instructor can therefore choose to focus on certain modules and omit others. Also, at this advanced level, some of the topics within each module tend to be highly specialised (e.g., vertically compound walls or complex railing patterns). These can be covered or not depending on the interests of the class and the schedule.

Course Objectives:

- Describe the benefits of families in Revit Architecture
- Using advanced features of Revit Architecture to create families
- Use of parametric 3D design tools to design families
- Use presentation tools for design visualisation

Prerequisites:

It is recommended that the student have a working knowledge of:

- Basic CAD knowledge and building design experience
- Revit Architecture Essentials course.
- Knowledge of basic techniques is assumed, such as creating walls, roofs, and other objects; copying and moving objects; creating and working with views; etc.
- Experience with Microsoft and Windows operations



Revit Architecture “Revit Families” Course Outline:

Day 1

Creating office standards for Families

- Family templates and consistency
- Guidelines to building content
- Naming
- Types
- Type Catalogues
- Grouping

The Family Editor Interface

- Explained
- Flexing

Parameters

- System
- User
- Shared
- Instance and type
- When to use Shared Parameters
- Work plane based
- Material Parameters
- Yes No Parameters

Reference Planes

- Named
- When to use
- Is reference
- When to lock model or symbolic geometry

Day 2

Reference Lines

- When to use

Formulas in Families

- Conditional

Visibility Control in Families

- By detail level
- By view
- By Parameter switch
- When to lock model or symbolic geometry

Nested Families

- Use for Arrays

Shared Families

2D Families

2 Pick Families

Detail Families

