

**Duration:**

2 Day.

**Who should attend?**

Those who want to get to grips with the fundamentals of Family creation within Revit MEP Software.

**Prerequisites:**

It is strongly recommended that you have knowledge of Revit software and have completed an essentials course, as well as a working knowledge of supported Microsoft operating Systems.

**Course Description:**

This courseware covers the basics of Family Creation within Revit software, from profile and simple families through to nested fully parametric objects.

Students are introduced to the process of creation and editing families and the tools utilised for parametric adaptations.

**Objectives:**

The primary objective of this courseware is to teach students the concepts of families and introduce the tools and processes for parametric family creation within Revit software. After completing this course, students will be able to:

- Describe the types of families within Revit and their uses
- Use the fundamental features in the Family Editor
- Create reference based solid and void form geometry
- Apply constraints and parameters
- Understand nested families

## Course Outline:

### Day 1

#### Family Concepts & Techniques

- Introduction to Creating Families
- Understand the Family Editor
- Overview of Family Creation
- Family Templates & Categorisation
- Managing Families
- Revit Family Types
  - System Families
  - In-place Families
  - Component Families
- Creating the Parametric Framework
  - Reference Lines & Planes
- Creating Family Elements (3D Forms)
  - Extrusions
  - Blends
  - Revolve
  - Sweep
  - Swept Blends
- Adding Tools for Families
  - Controls
  - Connectors
  - Openings
  - Lines
  - Components
- Creating Family Types Catalog
- Family Elements Visibility Display Settings
- Understanding Instance and Type Parameters
- Parameters – Family and Shared
- Setting Object Styles
- Materials

### Day 2

#### Creating Specific Families

- Creating In-Place Families
- Creating Profiles
- Creating Annotation Families
- Working with Shared Parameters

#### Creating MEP Specific Families

- Creating Custom Pipe Fitting Families
- Creating Customer Lighting Fixture Families

#### Troubleshooting & Best Practices for Creating Revit MEP Families

- Problem Solving
- Testing
- Cleaning Families
- Design Considerations

\* The suggested course duration is a guideline.

Course topics and duration may be modified by the instructor based upon the knowledge and skill level of the course participants.

A Gritec Certificate will be issued upon completion.

Maximum number of delegates: 6 per course

Training can either be taken on site or at one of our conveniently located local training centres.

To book a place on this course please call Gritec on **023 8086 8947**

#### Gritec Training Centre Locations

Southampton | Milton Keynes | Nottingham | Bradford | Durham