



Autodesk Revit: Family Creation for MEP

Course ID #: 7000-840-ZZ-Z

Hours: 7

Course Content

Course Description:

In this course, you will cover practices that are specific to the MEP discipline. Building Information Modeling (BIM) is an approach to the entire building life cycle. Autodesk Revit is a powerful BIM program for MEP 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.

Course Objectives:

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

Upon successful completion of this course students will be able to:

- 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, MEP connectors, and nested components.
- Create specific families, including profiles, annotations, and parameters.

Prerequisites:

You should be comfortable with the fundamentals of the Autodesk Revit software, as found in the Autodesk Revit: Fundamentals for MEP 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.



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Topics:

Lesson 1: Custom System Families

- Creating MEP System Families

Lesson 2: Component Family Concepts

- Creating Component Families
- Creating the Parametric Framework
- Creating Family Elements
- Creating Family Types

Lesson 3: Advanced Family Techniques

- Additional Tools for Families
- Visibility Display Settings

Lesson 4: Additional Family Types

- Creating 2D Families
- Creating Line-based Families
- Working with Shared Parameters

Lesson 5: Creating MEP-Specific Families

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