



Autodesk Revit: Fundamentals for Architecture

Course ID #: 7000-742-ZZ-Z

Hours: 28

Course Content

Course Description:

In this course, you will cover how to create a full 3D architectural project model, including walls, doors, windows, components, floors, ceilings, roofs, and stairs, using the basic tools that the majority of architectural users need. This includes how to navigate the user interface and use the basic drawing, editing, and viewing tools. The final part of the course focuses on creating construction documents.

Course Objectives:

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

- Create a full 3D architectural project model using the basic tools that the majority of architectural users need.
- Understand the purpose of BIM and how it is applied in the Autodesk Revit software.
- Navigate the Autodesk Revit workspace and interface.
- Work with the basic sketching and modifying tools.
- Review Revit file worksharing, terminology, and workflow.
- Link CAD and Revit files as the basis of a project.
- Create Levels and Grids as datum elements for the model.
- Create a 3D building model with walls, curtain walls, windows, and doors.
- Add component features, such as furniture and equipment.
- Add floors, ceilings, and roofs to the building model.
- Model stairs, railings, and ramps.
- Set up sheets for plotting with text, dimensions, details, tags, and schedules.
- Create details.

Prerequisites:

An understanding of architectural terminology is an asset.



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Topics:

Lesson 1: Introduction to Revit

- 1.1 BIM and Revit
- 1.2 Overview of the Interface
- 1.3 Opening and Saving Projects
- 1.4 Viewing Commands

Lesson 2: Starting a Project

- 2.1 Selecting a Project Template
- 2.2 Linking and Importing Files
- 2.3 Linking in Revit Models
- 2.4 Modifying Imported/Linked Files
- 2.5 Setting Up Levels
- 2.6 Creating Grids

Lesson 3: Working with Views

- 3.1 Modify How the Project Browser Displays
- 3.2 Duplicating Views
- 3.3 Modify How the View Displays
- 3.4 Adding Callout Views
- 3.5 Creating Elevations and Sections

Lesson 4: Revit Families

- 4.1 About Revit Families
- 4.2 Modifying Components
- 4.3 Creating Additional Family Types in a Project

Lesson 5: Basic Sketching and Modify Tools

- 5.1 Adding General Building Elements
- 5.2 Working with Basic Modify Tools
- 5.3 Working with Additional Modify Tools

Lesson 6: Adding Columns

- 6.1 Adding Columns
- 6.2 Adding Isolated Footings

Lesson 7: Modeling Walls

- 7.1 Modeling Walls
- 7.2 Modifying Walls
- 7.3 Adding Wall Footings
- 7.4 Adding Room Elements

Lesson 8: Working with Doors and Windows

- 8.1 About Doors and Windows
- 8.2 Creating Additional Door and Window Sizes

Lesson 9: Working with Curtain Walls

- 9.1 Creating Curtain Walls
- 9.2 Adding Curtain Wall Grids
- 9.3 Working with Curtain Wall Panels
- 9.4 Attaching Mullions to Curtain Wall Grids

Lesson 10: Modeling Floors

- 10.1 Modeling Floors
- 10.2 Creating Shaft Openings
- 10.3 Creating Sloped Floors

Lesson 11: Modeling Ceilings

- 11.1 Modeling Ceilings
- 11.2 Adding Ceiling Fixtures
- 11.3 Creating Ceiling Soffits

Lesson 12: Modeling Roofs

- 12.1 Modeling Roofs
- 12.2 Creating Roofs by Extrusion

Lesson 13: Modeling Stairs, Railings, and Ramps

- 13.1 Creating Component Stairs
- 13.2 Modifying Component Stairs
- 13.3 Working with Railings
- 13.4 Creating Ramps



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Lesson 14: Creating Construction Documents

- 14.1 Setting Up Sheets
- 14.2 Placing and Modifying Views on Sheets
- 14.3 Duplicating Sheets and Swapping Views
- 14.4 Modifying Views and View Titles
- 14.5 Printing Sheets

Lesson 15: Working with Annotations

- 15.1 Working with Dimensions
- 15.2 Working with Text
- 15.3 Adding Detail Lines and Symbols
- 15.4 Creating Legends

Lesson 16: Adding Tags and Schedules

- 16.1 Adding Tags
- 16.2 Working with Schedules

Lesson 17: Creating Details

- 17.1 Setting Up Detail Views
- 17.2 Adding Detail Components
- 17.3 Annotating Details

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