



## Autodesk Revit Architecture

# Revit 2010 Master Class

### Description

Students use Revit® Architecture 2010 to learn about building information modeling and the tools for parametric building design and documentation.

Students learn a wide range of advanced topics in Revit® Architecture 2010, building on the concepts introduced in the Revit Architecture 2010 Essentials training course.

Students learn about site design, advanced rendering techniques, phasing and design options, creating families of custom components, and collaborating on a design.

### Prerequisites

No previous CAD experience is necessary. However, before using this courseware, the student should have a working knowledge of the following:

- Architectural design, drafting, or engineering principles.
- Microsoft Windows Vista or Microsoft Windows XP.

### Class Information

**Duration** 5 days

**Objective** The primary objective of this Revit® Architecture training course is to teach students how to use powerful tools and advanced techniques in Revit Architecture 2010.

After completing this class, users will be able to:

- Create complex designs and professional-looking renderings.
- Create conceptual designs.
- Customize and create objects.
- Collaborate on designs with other team members using Revit Architecture 2010.

Students begin the five-day course by learning the fundamental features of Revit Architecture 2010, and then progressing through schematic design and construction documentation, before finishing with design visualization.

Students should be able to complete their first Revit Architecture project after completing this course. After completing this course, students will be able to:

- Describe the benefits of building information modeling. Use the fundamental features of Revit Architecture 2010.
- Use the parametric 3D design tools to design projects. Create detailing and drafting views. Create construction documentation.
- Use the presentation tools for design visualization.

This Revit® Architecture training course offers both imperial and metric hands-on exercises representing real-world design scenarios.

**Who Should Attend**

New users of Autodesk Revit 2010.

**Course Outline**

**Day 1**

**Building Information Modeling**

- Building Information Modeling

**Revit Architecture Basics**

- Exploring the User Interface
- Working with Revit Elements and Families
- Starting a Project

**Starting a Design**

- Creating a Basic Floor Plan
- Creating and Modifying Levels
- Working with Grids

**The Basics of the Building Model**

- Adding and Modifying Walls
- Working with Compound and Vertically Compound Walls
- Using Editing Commands
- Working with Doors
- Adding and Modifying Windows

**Loading Additional Building Components**

- Adding and Modifying Component Families

**Day 2**

**Viewing the Building Model**

- Managing Views
- Controlling Object Visibility
- Working with Section and Elevation Views
- Creating and Modifying 3D Views

**Using Dimensions and Constraints**

- Working with Dimensions
- Applying and Removing Constraints

**Developing the Building Model**

- Creating and Modifying Floors
- Adding and Modifying Ceilings
- Adding and Modifying Roofs
- Creating Curtain Walls
- Adding Stairs and Railings

## Autodesk Revit Architecture

### Day 3

#### Detailing and Drafting

- Creating Callout Views
- Working with Text and Tags
- Working with Detail Views
- Working with Drafting Views

#### Construction Documentation

- Creating and Modifying Schedules
- Creating Rooms and Room Schedules
- Creating Legends and Keynotes

#### Presenting the Building Model

- Creating and Printing Drawing Sheets
- Working with Title Blocks
- Managing Revisions
- Creating Renderings
- Using Walkthroughs
- Using Sun and Shadow Settings

### Day 4

#### Importing and Exporting Files

- Importing and Using External Files
- Exporting to External Files

#### Linking Files

- Working with Linked Revit Architecture Projects

- Monitoring and Coordinating Linked Projects

#### Conceptual Design

- Working with Mass Shapes
- Converting Mass Shapes to Building Components

#### Creating Advanced Components

- Creating and Using In-Place Families
- Creating and Modifying Component Families
- Creating Nested Families
- Working with Component Groups

### Day 5

#### Design and Analysis

- Designing in Phases
- Using Design Options
- Running an Interference Check
- Area Plans and Color Fills

#### Revit Architecture Worksharing

- Project Sharing with Worksets
- Managing Worksets and Multiple Users

#### Working with Professionals

- Working on a Site Design
- Working with a Structural Engineer

#### Advanced Rendering

- Creating Realistic Presentations
- Rendering Interior Scenes Using Radiosity

**Frequently Asked Questions:**

**Post-Revit Architecture Training support**

All delegates are eligible to email support for up to 30 days from Sprunt Media.

**How much does the Revit Architecture 2010 training course cost?**

Our standard pricing for our training is £350.00 per delegate per day.

**Reduced online booking cost are as follows-**

1 delegate: £250 per delegate per day

**Further discounts are available for group bookings.**

Please call for more information on group prices. **0207 478 1000**

**Please see Training calendar for scheduled dates for this course.**

**If the scheduled dates are not suitable or for further information, please contact 020 7478 1000 or e-mail [info@sprunt-media.net](mailto:info@sprunt-media.net)**