

# Autodesk Revit Architecture 2012 Essentials



## Course Details:

**Course Duration:** 3 days

**Award:** Autodesk Official Certificate in Autodesk Revit Architecture Essentials

## Course Description

Students use Revit® Architecture 2012 to learn about building information modeling and the tools for parametric building design and documentation. Students begin the three-day course by learning the fundamental features of Revit Architecture 2012, 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. This course offers metric hands-on exercises representing real-world design scenarios.

## Objectives

The primary objective of this course is to teach students the concepts of building information modeling and introduce the tools for parametric building design and documentation using Revit Architecture 2012.

After completing this course, students will be able to:

- Describe the benefits of building information modeling.
- Use the fundamental features of Revit Architecture 2012.
- Use the parametric 3D design tools to design projects.
- Create detailing and drafting views.
- Create construction documentation.
- Use the presentation tools for design visualization.

## Who Should Attend

Architects, Architectural Technicians & Engineers who want to learn about building information modeling, working in 3D & using design visualisation.

## Prerequisites

No previous CAD experience is necessary although experience of AutoCAD 2D draughting will be required for Revit Architectural Suite . Students should have a working knowledge of Architectural design, drafting, or engineering principles and of Microsoft® Windows® Vista, XP, 7 or 2000.

## Why choose Amicus Technology Training?

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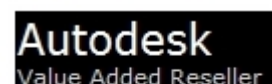
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# Course Content

## **Building Information Modeling**

- Building Information Modeling for Architectural Design

## **Revit Architecture Basics**

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

## **Starting a Design**

- Creating and Modifying Levels
- Creating and Modifying Grids

## **The Basics of the Building Model**

- Creating a Basic Floor Plan
- Adding and Modifying Walls
- Working with Compound Walls
- Using Editing Tools
- Adding and Modifying Doors
- Adding and Modifying Windows

## **Loading Additional Building Components**

- Working with Component Families

## **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
- Working with Ceilings
- Adding and Modifying Roofs
- Creating Curtain Walls
- Adding Stairs and Railings

## **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**

- Working with Drawing Sheets
- Working with Titleblocks
- Managing Revisions
- Creating Renderings
- Using Walkthroughs
- Using Sun and Shadow Settings