

Course Title: Revit Architecture – Conceptual Design and Visualisation

Course Code: REV-2A-CDV

Duration: 1 Day

Courseware Description

As architects and designers start a project, they frequently think about the overall massing of a building or the area of the footprint. Revit Architecture, using its powerful Building Information Modeling (BIM) engine, includes tools for creating mass elements that can be modified into many shapes. You can then apply walls, roofs, and floors to them to continue designing. You can also access space planning tools for setting up areas for rooms and also applying colors to them to show the connections. For presentations, you can create and render perspective views.

Objectives

The objective of the *Autodesk Revit Architecture Conceptual Design and Visualization* course is to enable students who have worked with Revit Architecture to expand their knowledge in the areas of Conceptual Design, including massing studies, space planning, visualization, and rendering.

Upon completion of the course, students will be able to:

- Create In-Place Conceptual Mass elements and Conceptual Mass families.
- Create building elements from massing studies.
- Use Rooms and Areas for space planning and analysis.
- Create perspectives, walkthroughs, and solar studies.
- Understand the concepts of rendering and lighting.

Who Should Attend

This courseware is designed for experienced users of Revit Architecture.

Prerequisites

It is recommended that students have a working knowledge of:

- Students should have completed the *Revit Architecture Introduction (REV-1A)* course or have equivalent experience using Revit Architecture. Architectural design, drafting, or engineering experience is highly recommended. Knowledge of basic techniques is assumed, such as creating walls, roofs, and other objects, copying and moving objects, creating and working with views, etc.
- Microsoft® Windows® 7, Vista, XP or 2000

Course Outline

Massing Studies

Overview of Massing Studies
Placing Mass Elements
Creating Conceptual Massing
Setting Work Planes
Creating Mass Forms
Dynamic Editing for Conceptual Massing
From Massing to Building

Space Planning & Area Analysis

Space Planning
Area Analysis
Creating Color Schemes

Visualization

Perspectives
Creating Walkthroughs
Solar Studies

Rendering

Basic Rendering
Working with Lighting
Enhancing Renderings