

Revit® Essentials for Landscape Design

This training course focuses on essential Autodesk Revit features, specifically targeting the creation and documentation of detailed 3D project models within an urban context. The curriculum is structured to progressively build proficiency: beginning with an exploration of the user interface and the foundational drawing, editing, and viewing tools. Subsequent modules cover the creation and modification of toposolids, the application of internal massing and site tools, and modeling of hardscapes (walls, floors, stairs). The course also addresses the organization of site elements (e.g., planting and furniture) and concludes with a thorough explanation of the construction documentation workflow.

Prerequisite: To master the fundamental skills for utilizing Autodesk Revit's Site tools. Prior knowledge of architectural and landscape design terminology is highly recommended to maximize your learning experience.

Course Length: 3 Days (*In-Person*) | 4 Days (*Online*)

Key Skills You Will Learn:

- **Building Information Modeling:** Understanding the purpose of Building Information Modeling (BIM) and how it is applied in the Autodesk Revit software.
- **Revit Fundamentals:** Navigate the interface, manage views, and understand the critical concept of Revit Families and components.
- **Project Setup:** Start a Landscape project, link architectural models, and establish essential datums (levels and grids).
- **Working with Sketch & Modify Tools:** Apply core sketching and modifying tools to build dimensionally accurate landscape design models.
- **Working with View Tools:** Creating callout, additional plans sections, and elevations.
- **Core Site Modeling Tools:** Creating and modifying toposolids, Sub-divide, Simplify Toposolid, and Excavate.
- **Adding Site Components:** Placing components for plantings, furniture, and lighting.
- **Adding Hardscape Elements:** Adding retaining walls, hardscape, stairs, and other building elements.
- **Construction Documentation:** Mastering the final documentation phase, which includes setting up drawing sheets, placing and modifying views, and managing title blocks.
- **Annotation and Output:** Producing clear, professional drawings by working with dimensions, text, annotations, schedules, and tags.

Register Today

topconsolutions.com/training

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Course Outline



Outline

Introduction to Revit:

- BIM and Revit
- Overview of the Interface

Starting a Model-Based Project:

- Selecting a Project Template
- Linking and Importing Files
- Linking in Revit Models
- Modifying Imported/Linked Files
- Setting Up Levels
- Creating Grids

Working with Views:

- Duplicating Views
- Modify How the View Displays
- Adding Callout Views
- Creating Elevations and Sections

Revit Families:

- About Revit Families
- Loading Components
- Modifying Components

Basic Sketching and Modify Tools:

- Working with Basic Modify Tools
- Working with Additional Modify Tools

Creating Toposolids:

- Shared Coordinates Terminology
- Coordinate System in Revit
- Shared Coordinates
- Creating Toposolids
- Modifying Toposolids
- Annotating Site Plans

Modeling Hardscapes Using Walls:

- Modeling Hardscapes Using Walls
- Modifying Walls

Modeling Stairs, Railings, and Ramps:

- Creating Component Stairs
- Modifying Component Stairs
- Working with Railings
- Creating Ramps

Grouping Landscape Elements:

- Adding Landscape Components
- Creating Planting Areas

Creating Construction Documents:

- Setting Up Sheets
- Placing and Modifying Views on Sheets

Working with Annotations:

- Working with Dimensions
- Working with Text

Adding Tags and Schedules:

- Adding Tags
- Working with Schedules

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