

Training Course Outline

REVIT ARCHITECTURE ADVANCED

TRAINING COURSE OUTLINE

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COURSE DESCRIPTION

This course covers a wide range of advanced topics in Revit® Architecture, continuing to build on the concepts introduced in the Revit Architecture Essentials course. Students learn about site design, advanced rendering techniques, phasing and design options, creating families of custom components, and collaborating on a design.



TARGET GROUP

The course aim to user who have basic knowledge of the Autodesk Revit Architecture or have attended the Revit Architecture Essential class before.



COURSE DURATION

Full Time: 3 Days (10.30am-5.30pm)



LEARNING OUTCOME

By the end of the course, participants should be able to:

- Create 2D detail components
- Import and export data between AutoCAD® ,AutoCAD® Architecture and Revit® Structure projects
- Link Revit models, coordinate and monitor changes in acurrentproject
- Publish Revit Structure files to Design Web Format (DWF™) files and work DWF markupfiles
- Import and export design data using the Industry Foundation Classes (IFC)format

CAREER PATH

3D Modeller, BIM Technician, 3D Visualizer, Project Technical Draughtperson, 3D CAD Draughtperson, 3D CAD

COURSE PRE-REQUISITES

- Basic Revit Architecture Skills
- Completed the Revit Architecture Essentials courseware
- Architectural design, drafting, or engineering experience isrecommended
- A working knowledge of Microsoft® Windows® 7, Microsoft® Windows® Vista, Microsoft® Windows® XP, or Microsoft® Windows® 2000

CERTIFICATE

MTTC Certificate of Completion will be issued to participants with full attendance record upon completion of training.

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COURSE CONTENT

DAY 1

Importing and Exporting Files

- Importing Vector Data, 3D Solids and
- Google Sketch-Up Files
- Positioning and Scaling Options
- Importing Raster Data
- Exporting

Linking Files

- Linked Projects
- Managing Shared Coordinates
Linked Locations. Acquiring and
Reporting
- Shared Coordinates
- Project Collaboration
- Monitoring & Coordinating Linked-
Projects

Conceptual Design

- Working with Massing
- Add Massing Shapes to a Project
- Mass Conversion Tools
- Converting Massing Shapes to Building
Components

Managing View

- View Filter
- View Template
- Plan Region

DAY 2

Creating Advanced Components

- In-Place Families
- About Solids and Voids
- Creating 3D Geometry
- Modifying In-Place Families

Families

- Component Families & Family Editor
- Parametric Formulas
- Process of Creating Standard
Component
- Families

Nested Families

- Linked Parametes

Component Groups

- Placing, Saving, and Converting
Component Groups Duplicating and
Editing Component Groups

DAY 3

Design and Analysis

- Phases Guidelines for Creating and
Using Phases

Design Options

- Properties of Design Options
- Working with Design Option Set

Interference Checks

- Guidelines for Checking and
Fixing Interference Conditions

Area Plans

- Color Schemes
- Guidelines for Using Area Plans and
Color Schemes

Revit Architecture Worksharing

- Process of Project Sharing
- About Worksets & Central File
- Guidelines for Sharing Projects
Using Worksets

Local Files

- Editable Worksets & Dialog Box
- Process of Removing Users from
a Workset
- Using Local Files

Working with Professionals

- Creating Toposurfaces & Property Lines
- Site Tools & Components

Project Sharing

- Interference Checking

Advanced Rendering Techniques

- Materials and Render Appearances
- Process of Using Materials Styles
- Editing Render Appearances
- About Non-Building Components
- Lighting, Materials & RenderQuality
- Process of Specifying Settings for
Rendering Interior Views