Course : Revit Architecture, introduction

Practical course - 4d - 28h00 - Ref. RAV
Price : 1940 CHF E.T.

★★★★☆ **4,7 / 5**

Building Information Modeling (BIM) technology is changing the way buildings are designed and constructed. You will master the functionalities of Revit Architecture to produce an architectural model based on a BIM template in a collaborative work context.

🎯 Teaching objectives

At the end of the training, the participant will be able to:

- ✅ Understanding BIM
- ✅ Discover the graphical interface, workspace and help of Revit Architecture
- ✅ Modeling a building
- ✅ Managing a project in compliance with the BIM charter and conventions

Intended audience

Building designers, architects, engineers, project managers, manufacturers, designers, draftsmen, design offices and project owners.

Prerequisites

Good knowledge of a graphical operating system.

Course schedule

1 BIM concepts and principles

- Digital mock-up.
- Categories, families, types and occurrences.
- Project design method.
- Notion of object and view.
- Standard concept and project template.

Hands-on work
Open a digital model.

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2   User interface

- Project Explorer.
- Navigation in plan, ceiling, floor and reference views.
- Creation of elevation views linked to project georeferencing.
- Create/delete levels according to project.
- Hide and temporarily isolate objects.

Hands-on work
Create customized workspaces.

3   Modeling a simple building

- Wall creation: height, justification, types, intersections and materials.
- Door and window sash insertions and settings.
- Creation of slabs, floors, ceilings, roofs, posts, stairs, railings and access ramps.
- Create natural terrain from a 3D survey plan or point file.
- Import a digitized cadastral plan, DWG file or IFC file.
- Scale, orient and position.

Hands-on work
Model a complete building.

4   Skinning, rendering and virtual tour

- Create legends, components, symbols, bills of materials and quantities.
- Temporary and permanent ratings.
- Tools for measuring and calculating part surfaces.
- Control display by view or by element.
- Annotations: dimensions, door and window labels, plan and sectional elevations.
- 3D views, camera, natural lighting, artificial lighting, rendering, virtual tour.

Hands-on work
Finalize a project with the trim.

5   Layout and printing of views in a sheet with title block

- Prepare the views to be placed in the sheets.
- Frame the area to be printed.
- Display cast shadows, define sun position.
- Print in PDF format.

Hands-on work
Distribute a project in print and digital format.

6   Collaborative work (BIM)

- Manage standardized file formats.
- Manage master files and synchronize.
- BIM data portal and library.

Hands-on work
Produce a template in compliance with the BIM charter and conventions.

Dates and locations

REMOTE CLASS
2026 : 1 Dec.