

# 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.

#### PARTICIPANTS

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

#### PREREQUISITES

Good knowledge of a graphical operating system.

#### TRAINER QUALIFICATIONS

The experts leading the training are specialists in the covered subjects. They have been approved by our instructional teams for both their professional knowledge and their teaching ability, for each course they teach. They have at least five to ten years of experience in their field and hold (or have held) decision-making positions in companies.

#### ASSESSMENT TERMS

The trainer evaluates each participant's academic progress throughout the training using multiple choice, scenarios, hands-on work and more. Participants also complete a placement test before and after the course to measure the skills they've developed.

## 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.

### TEACHING AIDS AND TECHNICAL RESOURCES

- The main teaching aids and instructional methods used in the training are audiovisual aids, documentation and course material, hands-on application exercises and corrected exercises for practical training courses, case studies and coverage of real cases for training seminars.
- At the end of each course or seminar, ORSYS provides participants with a course evaluation questionnaire that is analysed by our instructional teams.
- A check-in sheet for each half-day of attendance is provided at the end of the training, along with a course completion certificate if the trainee attended the entire session.

### TERMS AND DEADLINES

Registration must be completed 24 hours before the start of the training.

### ACCESSIBILITY FOR PEOPLE WITH DISABILITIES

Do you need special accessibility accommodations? Contact Mrs. Fosse, Disability Manager, at [psh-accueil@orsys.fr](mailto:psh-accueil@orsys.fr) to review your request and its feasibility.

## Dates and locations

### REMOTE CLASS

2026 : 1 Dec.