Publication date : 05/31/2024

Course : Revit MEP, introduction

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

5 / 5

Building Information Modeling (BIM) technology is changing the way buildings are designed and constructed. You will master the functionalities of Revit MEP to produce digital mock-ups based on a BIM project 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 features of Revit MEP
- Creating a digital mock-up based on a BIM project template
- 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.

Practical details

Hands-on work

Depending on the profile, the practical work will involve modeling an air conditioning, ventilation, heating (HVAC), plumbing or electrical network.

Course schedule

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.

1 BIM concepts and principles

- Digital mock-up.
- Categories, families, types and occurrences.
- Project design method.
- Notion of object and view.
- Concept of standard and template.

Hands-on work
Open a digital model.

2 User interface

- Project Explorer.
- View navigation.
- Creation of elevation views linked to project georeferencing.
- Create or delete levels according to the project.
- Hide and temporarily isolate objects.

Hands-on work
Create customized workspaces.

3 Project modeling

- Wall creation: height, justification, types, intersections and materials.
- Insert sashes and set parameters.
- Creation of slabs, floors, ceilings, roofs, posts...

Hands-on work
Model a complete project.

4 Air conditioning/ventilation/heating (HVAC)

- Heating and cooling loads.
- Create an HVAC system and modify a duct network.
- Create and modify a hydraulic system.

Hands-on work
Create an HVAC network.

5 Plumbing/Electricity

- Create a plumbing system.
- Create a fire-fighting system.
- Create an electrical system.

Hands-on work
Modifying a plumbing system.

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 to review your request and its feasibility.

6 Skinning, rendering and virtual tour

- Create legends, components, symbols, bills of materials and quantities.
- Creation of sections and elevations.
- 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.

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

- Prepare the views to be placed in the sheets.
- Set the display of items to be printed.
- Print in PDF format.

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

8 Collaborative work (BIM)

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

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

Dates and locations

REMOTE CLASS
2026 : 31 Mar., 26 May, 6 Oct.