Publication date : 05/23/2024

Course : Smart Building for sustainable construction

Practical course - 2d - 14h00 - Ref. SMB
Price : 1190 € E.T.

How to reduce the carbon footprint of the real estate industry: combining savings with respect for today's environmental challenges is making its mark on the urban landscape. We're talking about smart buildings. Learn how to situate smart building within the overall logic of tomorrow's construction.

Teaching objectives

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

- Discover smart building concepts
- Understanding smart building technologies
- Understand the benefits of smart buildings, from design to operation

Intended audience

IT managers, consultants, project managers and all those involved in [[smart building]] projects. Public and private project owners.

Prerequisites

No special knowledge required.

Practical details

Case study

Theoretical input and practical exercises. Case studies and group discussions.

Teaching methods

Active teaching.

Course schedule

PARTICIPANTS

IT managers, consultants, project managers and all those involved in [[smart building]] projects. Public and private project owners.

PREREQUISITES

No special knowledge required.

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 An introduction to smart building for sustainable construction

- Determine the scope: residential, tertiary new-build or renovation.
- Societal and economic issues.
- The impact of connected objects.
- The regulatory context.
- From methodology to best practice.

Group discussion
Case studies and testimonials from professionals.

2 The benefits of smart building

- Identify new smart building uses and services.
- Know your building's intelligence level.
- Optimizing energy consumption: the smart grid.
- Facilitate access for people with reduced mobility.
- Ensure the safety of people and property.
- Improve user comfort.
- Maintain and upgrade the building.
- Building the smart building business model.

Storyboarding workshops
Case studies and collective reflection.

3 Smart building design methodology

- A cross-functional approach is essential.
- Building Information Modeling (BIM) and smart building.
- Learn about new professions and new players.
- Bringing together energy, buildings and IT.
- Audit existing systems where possible.
- Involve all players in the functional analysis.
- Analyze installation and operating constraints.

Case study
Case studies on pitfalls to avoid. Budget analysis.

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.

Dates and locations

REMOTE CLASS
2026 : 30 Mar., 22 June, 5 Nov.

PARIS LA DÉFENSE
2026 : 23 Mar., 15 June, 29 Oct.