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CONSTRUCTION MANAGEMENT | CM-059

Smart Buildings and Building Automation for Developers

Contact

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Address

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Course content

Why Attend

Tenants and investors increasingly expect buildings that are energy efficient, comfortable, secure and connected. Smart building technologies, from building management systems and intelligent lighting to occupancy sensors and integrated digital platforms, can reduce operating costs, improve occupant experience and increase asset value, but only if they are planned, specified and delivered well.

This Smart Buildings and Building Automation for Developers training course helps developers, project managers and owners make informed decisions about smart building technology. Participants learn about building automation systems, network infrastructure, integration and open protocols, data and analytics, cyber security, specification and procurement, commissioning and handover, and how to build a business case.

Course Methodology

• The course combines technology briefings, case studies and practical planning exercises. Participants define smart building objectives for a case study development, outline a system architecture, review a specification for gaps and prepare a business case, discussing trade-offs between cost, benefits and risks.

Course Objectives

• Explain the components and benefits of smart buildings

• Describe building management and automation systems

• Understand network infrastructure and integration platforms

• Apply open protocols to avoid proprietary lock-in

• Use building data and analytics to improve performance

• Address cyber security risks in building systems

Target Audience

• Real estate developers and investment managers

• Project managers and development managers

• Building services and MEP engineers

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- Facilities and asset managers

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Course outline

Detailed course outline

Day-by-day outline for Smart Buildings and Building Automation for Developers.

Day 1 - Smart Building Concepts and Value

- 09:00-09:42 | What makes a building smart
- 09:42-10:03 | Benefits for owners, operators and occupants
- 10:03-10:45 | Market expectations and smart building certifications
- 10:45-11:00 | Common reasons smart building projects disappoint
- 11:00-11:30 | Coffee break
- 11:30-11:57 | Common reasons smart building projects disappoint (continued)
- 11:57-12:38 | Case studies of successful smart buildings
- 12:38-13:19 | Defining smart building objectives for a project
- 13:19-14:00 | Exercise: setting objectives for a case study development

Day 2 - Building Systems and Automation

- 09:00-10:00 | Building management systems and their functions
- 10:00-10:30 | Heating, ventilation and air conditioning controls
- 10:30-11:00 | Smart lighting and daylight control
- 11:00-11:30 | Coffee break
- 11:30-12:00 | Access control, security and visitor systems
- 12:00-12:30 | Metering, sub-metering and energy management
- 12:30-13:00 | Occupancy sensing and space utilisation
- 13:00-14:00 | Workshop: mapping systems for a building

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Day 3 - Integration, Networks and Data

- 09:00-09:30 | Converged network infrastructure for buildings
- 09:30-10:00 | Open protocols and interoperability standards
- 10:00-10:30 | Integration platforms and digital twins
- 10:30-11:00 | Building data models and naming conventions
- 11:00-11:30 | Coffee break
- 11:30-12:00 | Building data models and naming conventions (continued)
- 12:00-12:30 | Analytics, fault detection and optimisation
- 12:30-13:00 | Occupant applications and user experience
- 13:00-14:00 | Exercise: outlining a smart building architecture

Day 4 - Cyber Security and Procurement

- 09:00-09:49 | Cyber security risks in building systems
- 09:49-10:38 | Secure design and network segmentation
- 10:38-11:00 | Roles of IT and facilities teams
- 11:00-11:30 | Coffee break
- 11:30-11:33 | Roles of IT and facilities teams (continued)
- 11:33-12:22 | Writing smart building specifications
- 12:22-12:47 | Procurement strategies and avoiding vendor lock-in
- 12:47-13:11 | Coordinating smart systems across contractors
- 13:11-14:00 | Workshop: reviewing a specification for gaps

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Day 5 - Commissioning, Operation and Business Case

- 09:00-09:27 | Integrated testing and commissioning of systems
- 09:27-09:54 | Handover, training and operational readiness
- 09:54-10:21 | Monitoring performance after occupation
- 10:21-10:48 | Costs, savings and value of smart buildings
- 10:48-11:00 | Building and presenting the business case
- 11:00-11:30 | Coffee break
- 11:30-12:12 | Building and presenting the business case (continued)
- 12:12-13:06 | Future trends in smart building technology
- 13:06-14:00 | Personal action plan for smart building projects

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Seminar dates

Available seminar dates

Live dates and pricing for Smart Buildings and Building Automation for Developers generated from the course details page.

Date	Location	Format	Fee
21 - 25 December 2026	London	Classroom	**€2,915**
7 - 11 December 2026	Barcelona	Classroom	**€2,275**
14 - 18 December 2026	Frankfurt	Classroom	**€2,175**
4 - 8 January 2027	London	Classroom	**€2,915**
11 - 15 January 2027	Barcelona	Classroom	**€2,275**
18 - 22 January 2027	Frankfurt	Classroom	**€2,175**
25 - 29 January 2027	Amsterdam	Classroom	**€3,215**
8 - 12 February 2027	London	Classroom	**€2,915**
15 - 19 February 2027	Barcelona	Classroom	**€2,275**
22 - 26 February 2027	Frankfurt	Classroom	**€2,175**

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Seminar dates

Available seminar dates

Live dates and pricing for Smart Buildings and Building Automation for Developers generated from the course details page.

Date	Location	Format	Fee
1 - 5 February 2027	Cape Town	Classroom	**€1,825**
15 - 19 March 2027	London	Classroom	**€2,915**
22 - 26 March 2027	Barcelona	Classroom	**€2,275**
1 - 5 March 2027	Frankfurt	Classroom	**€2,175**
8 - 12 March 2027	Dubai	Classroom	**€2,845**
26 - 30 April 2027	London	Classroom	**€2,915**
5 - 9 April 2027	Barcelona	Classroom	**€2,275**
12 - 16 April 2027	Frankfurt	Classroom	**€2,175**
19 - 23 April 2027	Geneva	Classroom	**€3,315**
3 - 7 May 2027	London	Classroom	**€2,915**

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Live dates and pricing for Smart Buildings and Building Automation for Developers generated from the course details page.

Date	Location	Format	Fee
10 - 14 May 2027	Barcelona	Classroom	**€2,275**
17 - 21 May 2027	Frankfurt	Classroom	**€2,175**
24 - 28 May 2027	Istanbul	Classroom	**€2,825**
21 - 25 June 2027	London	Classroom	**€2,915**
7 - 11 June 2027	Barcelona	Classroom	**€2,275**
14 - 18 June 2027	Frankfurt	Classroom	**€2,175**
19 - 23 July 2027	London	Classroom	**€2,915**
26 - 30 July 2027	Barcelona	Classroom	**€2,275**
5 - 9 July 2027	Frankfurt	Classroom	**€2,175**
12 - 16 July 2027	Madrid	Classroom	**€3,400**

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Date	Location	Format	Fee
23 - 27 August 2027	London	Classroom	**€2,915**
2 - 6 August 2027	Barcelona	Classroom	**€2,275**
9 - 13 August 2027	Frankfurt	Classroom	**€2,175**
16 - 20 August 2027	Munich	Classroom	**€2,425**
20 - 24 September 2027	London	Classroom	**€2,915**
6 - 10 September 2027	Barcelona	Classroom	**€2,275**
13 - 17 September 2027	Frankfurt	Classroom	**€2,175**
11 - 15 October 2027	London	Classroom	**€2,915**
18 - 22 October 2027	Barcelona	Classroom	**€2,275**
25 - 29 October 2027	Frankfurt	Classroom	**€2,175**

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Seminar dates

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Date	Location	Format	Fee
4 - 8 October 2027	Rome	Classroom	**€2,830**
15 - 19 November 2027	London	Classroom	**€2,915**
22 - 26 November 2027	Barcelona	Classroom	**€2,275**
1 - 5 November 2027	Frankfurt	Classroom	**€2,175**
8 - 12 November 2027	Vienna	Classroom	**€3,425**
27 - 31 December 2027	London	Classroom	**€2,915**
6 - 10 December 2027	Barcelona	Classroom	**€2,275**
13 - 17 December 2027	Frankfurt	Classroom	**€2,175**
20 - 24 December 2027	Amsterdam	Classroom	**€3,215**
21 - 25 December 2026	Online / Live	Online / Live	**€1,625**

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Date	Location	Format	Fee
7 - 11 December 2026	Online / Live	Online / Live	**€1,625**
14 - 18 December 2026	Online / Live	Online / Live	**€1,625**
4 - 8 January 2027	Online / Live	Online / Live	**€1,625**
11 - 15 January 2027	Online / Live	Online / Live	**€1,625**
18 - 22 January 2027	Online / Live	Online / Live	**€1,625**
25 - 29 January 2027	Online / Live	Online / Live	**€1,625**
8 - 12 February 2027	Online / Live	Online / Live	**€1,625**
15 - 19 February 2027	Online / Live	Online / Live	**€1,625**
22 - 26 February 2027	Online / Live	Online / Live	**€1,625**
1 - 5 February 2027	Online / Live	Online / Live	**€1,625**

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Date	Location	Format	Fee
15 - 19 March 2027	Online / Live	Online / Live	**€1,625**
22 - 26 March 2027	Online / Live	Online / Live	**€1,625**
1 - 5 March 2027	Online / Live	Online / Live	**€1,625**
8 - 12 March 2027	Online / Live	Online / Live	**€1,625**
26 - 30 April 2027	Online / Live	Online / Live	**€1,625**
5 - 9 April 2027	Online / Live	Online / Live	**€1,625**
12 - 16 April 2027	Online / Live	Online / Live	**€1,625**
19 - 23 April 2027	Online / Live	Online / Live	**€1,625**
3 - 7 May 2027	Online / Live	Online / Live	**€1,625**
10 - 14 May 2027	Online / Live	Online / Live	**€1,625**

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Date	Location	Format	Fee
17 - 21 May 2027	Online / Live	Online / Live	**€1,625**
24 - 28 May 2027	Online / Live	Online / Live	**€1,625**
21 - 25 June 2027	Online / Live	Online / Live	**€1,625**
7 - 11 June 2027	Online / Live	Online / Live	**€1,625**
14 - 18 June 2027	Online / Live	Online / Live	**€1,625**
19 - 23 July 2027	Online / Live	Online / Live	**€1,625**
26 - 30 July 2027	Online / Live	Online / Live	**€1,625**
5 - 9 July 2027	Online / Live	Online / Live	**€1,625**
12 - 16 July 2027	Online / Live	Online / Live	**€1,625**
23 - 27 August 2027	Online / Live	Online / Live	**€1,625**

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Date	Location	Format	Fee
2 - 6 August 2027	Online / Live	Online / Live	**€1,625**
9 - 13 August 2027	Online / Live	Online / Live	**€1,625**
16 - 20 August 2027	Online / Live	Online / Live	**€1,625**
20 - 24 September 2027	Online / Live	Online / Live	**€1,625**
6 - 10 September 2027	Online / Live	Online / Live	**€1,625**
13 - 17 September 2027	Online / Live	Online / Live	**€1,625**
11 - 15 October 2027	Online / Live	Online / Live	**€1,625**
18 - 22 October 2027	Online / Live	Online / Live	**€1,625**
25 - 29 October 2027	Online / Live	Online / Live	**€1,625**
4 - 8 October 2027	Online / Live	Online / Live	**€1,625**

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15 - 19 November 2027	Online / Live	Online / Live	**€1,625**
22 - 26 November 2027	Online / Live	Online / Live	**€1,625**
1 - 5 November 2027	Online / Live	Online / Live	**€1,625**
8 - 12 November 2027	Online / Live	Online / Live	**€1,625**
27 - 31 December 2027	Online / Live	Online / Live	**€1,625**
6 - 10 December 2027	Online / Live	Online / Live	**€1,625**
13 - 17 December 2027	Online / Live	Online / Live	**€1,625**
20 - 24 December 2027	Online / Live	Online / Live	**€1,625**