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CONSTRUCTION MANAGEMENT | CM-045

Facade Engineering and Building Envelope Management

Contact

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Course content

Why Attend

The building envelope protects occupants from weather, controls energy use, provides fire safety and defines the appearance of a building. Facades are also among the most complex, costly and risk-prone packages on a construction project, with frequent problems in water tightness, thermal performance, fire behaviour, interfaces and programme.

This Facade Engineering and Building Envelope Management training course gives construction and design professionals a practical understanding of how facades are designed, procured, tested, installed and maintained. Participants learn about curtain walls, cladding systems, glazing, roofing interfaces, thermal and moisture performance, fire safety, structural movement, performance testing, quality control and defect prevention.

Course Methodology

• The course uses technical briefings, case studies of facade failures, detail drawings and test reports. Participants review facade details for risks, plan a testing and inspection regime, manage interface issues on a case study project and diagnose defects from site photographs.

Course Objectives

• Explain the functions and performance requirements of building envelopes

• Describe common facade and cladding systems and their characteristics

• Understand thermal, moisture and air tightness principles

• Address fire safety requirements for external walls

• Manage facade design, procurement and specialist contractors

• Plan performance testing, mock-ups and quality inspections

Target Audience

• Facade engineers and building envelope consultants

• Architects and design managers

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- Construction and project managers
- Package and procurement managers

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Course outline

Detailed course outline

Day-by-day outline for Facade Engineering and Building Envelope Management.

Day 1 - Building Envelope Fundamentals

- 09:00-10:00 | Functions of the building envelope
- 10:00-10:30 | Performance requirements: weather, energy, acoustics and safety
- 10:30-11:00 | Overview of facade, roofing and wall systems
- 11:00-11:30 | Coffee break
- 11:30-12:00 | Regulations and standards affecting envelopes
- 12:00-12:30 | Lessons from major facade failures and fires
- 12:30-13:00 | Roles of designers, specialists and contractors
- 13:00-14:00 | Exercise: defining performance requirements for a project

Day 2 - Facade Systems and Materials

- 09:00-09:34 | Stick and unitised curtain wall systems
- 09:34-10:08 | Rainscreen cladding and ventilated facades
- 10:08-10:42 | Glazing types, coatings and insulated glass units
- 10:42-11:00 | Masonry, precast and metal panel facades
- 11:00-11:30 | Coffee break
- 11:30-11:46 | Masonry, precast and metal panel facades (continued)
- 11:46-12:20 | Sealants, gaskets and fixings
- 12:20-12:53 | Selecting systems for performance and buildability
- 12:53-14:00 | Workshop: comparing facade system options

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Day 3 - Building Physics and Fire Safety

- 09:00-09:34 | Thermal performance and thermal bridging
- 09:34-10:08 | Condensation risk and vapour control
- 10:08-10:42 | Air tightness and water tightness principles
- 10:42-11:00 | Structural movement, wind loads and deflection
- 11:00-11:30 | Coffee break
- 11:30-11:46 | Structural movement, wind loads and deflection (continued)
- 11:46-12:20 | Fire performance of external wall materials
- 12:20-12:53 | Cavity barriers and fire stopping
- 12:53-14:00 | Exercise: reviewing details for performance risks

Day 4 - Design, Procurement and Testing

- 09:00-09:54 | Facade design responsibility and design development
- 09:54-10:21 | Procuring specialist facade contractors
- 10:21-10:48 | Shop drawings, samples and technical submittals
- 10:48-11:00 | Visual and performance mock-ups
- 11:00-11:30 | Coffee break
- 11:30-11:45 | Visual and performance mock-ups (continued)
- 11:45-12:39 | Laboratory and site testing of facades
- 12:39-13:06 | Programme and logistics for facade installation
- 13:06-14:00 | Workshop: planning a facade testing regime

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Day 5 - Installation, Interfaces and Maintenance

- 09:00-09:39 | Quality inspections during facade installation
- 09:39-10:18 | Interfaces with structure, roofing and services
- 10:18-10:57 | Common defects and how to prevent them
- 10:57-11:00 | Diagnosing leaks and performance failures
- 11:00-11:30 | Coffee break
- 11:30-12:06 | Diagnosing leaks and performance failures (continued)
- 12:06-12:44 | Maintenance, cleaning and access strategies
- 12:44-13:22 | Remediation of existing facades
- 13:22-14:00 | Personal action plan for envelope management

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Seminar dates

Available seminar dates

Live dates and pricing for Facade Engineering and Building Envelope Management generated from the course details page.

Date	Location	Format	Fee
7 - 11 December 2026	London	Classroom	**€2,915**
14 - 18 December 2026	Barcelona	Classroom	**€2,275**
21 - 25 December 2026	Frankfurt	Classroom	**€2,175**
18 - 22 January 2027	London	Classroom	**€2,915**
25 - 29 January 2027	Barcelona	Classroom	**€2,275**
4 - 8 January 2027	Frankfurt	Classroom	**€2,175**
11 - 15 January 2027	Paris	Classroom	**€2,810**
22 - 26 February 2027	London	Classroom	**€2,915**
1 - 5 February 2027	Barcelona	Classroom	**€2,275**
8 - 12 February 2027	Frankfurt	Classroom	**€2,175**

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Seminar dates

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Date	Location	Format	Fee
15 - 19 February 2027	Rome	Classroom	**€2,830**
1 - 5 March 2027	London	Classroom	**€2,915**
8 - 12 March 2027	Barcelona	Classroom	**€2,275**
15 - 19 March 2027	Frankfurt	Classroom	**€2,175**
22 - 26 March 2027	Vienna	Classroom	**€3,425**
12 - 16 April 2027	London	Classroom	**€2,915**
19 - 23 April 2027	Barcelona	Classroom	**€2,275**
26 - 30 April 2027	Frankfurt	Classroom	**€2,175**
5 - 9 April 2027	Amsterdam	Classroom	**€3,215**
17 - 21 May 2027	London	Classroom	**€2,915**

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Seminar dates

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Date	Location	Format	Fee
24 - 28 May 2027	Barcelona	Classroom	**€2,275**
3 - 7 May 2027	Frankfurt	Classroom	**€2,175**
10 - 14 May 2027	Cape Town	Classroom	**€1,825**
7 - 11 June 2027	London	Classroom	**€2,915**
14 - 18 June 2027	Barcelona	Classroom	**€2,275**
21 - 25 June 2027	Frankfurt	Classroom	**€2,175**
5 - 9 July 2027	London	Classroom	**€2,915**
12 - 16 July 2027	Barcelona	Classroom	**€2,275**
19 - 23 July 2027	Frankfurt	Classroom	**€2,175**
26 - 30 July 2027	Geneva	Classroom	**€3,315**

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Seminar dates

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Date	Location	Format	Fee
9 - 13 August 2027	London	Classroom	**€2,915**
16 - 20 August 2027	Barcelona	Classroom	**€2,275**
23 - 27 August 2027	Frankfurt	Classroom	**€2,175**
2 - 6 August 2027	Istanbul	Classroom	**€2,825**
6 - 10 September 2027	London	Classroom	**€2,915**
13 - 17 September 2027	Barcelona	Classroom	**€2,275**
20 - 24 September 2027	Frankfurt	Classroom	**€2,175**
25 - 29 October 2027	London	Classroom	**€2,915**
4 - 8 October 2027	Barcelona	Classroom	**€2,275**
11 - 15 October 2027	Frankfurt	Classroom	**€2,175**

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Seminar dates

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Date	Location	Format	Fee
18 - 22 October 2027	Madrid	Classroom	**€3,400**
1 - 5 November 2027	London	Classroom	**€2,915**
8 - 12 November 2027	Barcelona	Classroom	**€2,275**
15 - 19 November 2027	Frankfurt	Classroom	**€2,175**
22 - 26 November 2027	Munich	Classroom	**€2,425**
13 - 17 December 2027	London	Classroom	**€2,915**
20 - 24 December 2027	Barcelona	Classroom	**€2,275**
27 - 31 December 2027	Frankfurt	Classroom	**€2,175**
6 - 10 December 2027	Paris	Classroom	**€2,810**
7 - 11 December 2026	Online / Live	Online / Live	**€1,625**

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Date	Location	Format	Fee
14 - 18 December 2026	Online / Live	Online / Live	**€1,625**
21 - 25 December 2026	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**
4 - 8 January 2027	Online / Live	Online / Live	**€1,625**
11 - 15 January 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**
8 - 12 February 2027	Online / Live	Online / Live	**€1,625**
15 - 19 February 2027	Online / Live	Online / Live	**€1,625**

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Date	Location	Format	Fee
1 - 5 March 2027	Online / Live	Online / Live	**€1,625**
8 - 12 March 2027	Online / Live	Online / Live	**€1,625**
15 - 19 March 2027	Online / Live	Online / Live	**€1,625**
22 - 26 March 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**
26 - 30 April 2027	Online / Live	Online / Live	**€1,625**
5 - 9 April 2027	Online / Live	Online / Live	**€1,625**
17 - 21 May 2027	Online / Live	Online / Live	**€1,625**
24 - 28 May 2027	Online / Live	Online / Live	**€1,625**

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Date	Location	Format	Fee
3 - 7 May 2027	Online / Live	Online / Live	**€1,625**
10 - 14 May 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**
21 - 25 June 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**
19 - 23 July 2027	Online / Live	Online / Live	**€1,625**
26 - 30 July 2027	Online / Live	Online / Live	**€1,625**
9 - 13 August 2027	Online / Live	Online / Live	**€1,625**

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Date	Location	Format	Fee
16 - 20 August 2027	Online / Live	Online / Live	**€1,625**
23 - 27 August 2027	Online / Live	Online / Live	**€1,625**
2 - 6 August 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**
20 - 24 September 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**
11 - 15 October 2027	Online / Live	Online / Live	**€1,625**
18 - 22 October 2027	Online / Live	Online / Live	**€1,625**

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Date	Location	Format	Fee
1 - 5 November 2027	Online / Live	Online / Live	**€1,625**
8 - 12 November 2027	Online / Live	Online / Live	**€1,625**
15 - 19 November 2027	Online / Live	Online / Live	**€1,625**
22 - 26 November 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**
27 - 31 December 2027	Online / Live	Online / Live	**€1,625**
6 - 10 December 2027	Online / Live	Online / Live	**€1,625**