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CONSTRUCTION MANAGEMENT | CM-054

Retrofit and Refurbishment of Existing Buildings

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Course content

Why Attend

A large share of construction activity involves existing buildings: upgrading offices, converting industrial buildings to new uses, improving energy performance, strengthening structures and adapting heritage assets. Working with existing fabric brings uncertainty about hidden conditions, structural capacity, hazardous materials and services, and often requires work while buildings remain occupied.

This Retrofit and Refurbishment of Existing Buildings training course provides a structured approach to planning and delivering refurbishment projects. Participants learn how to survey and assess existing buildings, identify structural, fire and hazardous material risks, plan energy retrofit measures, manage design and approvals for alterations, work safely in occupied buildings and control cost and programme uncertainty.

Course Methodology

• The course uses case studies of refurbishment projects, survey reports and photographs of existing buildings. Participants plan a survey strategy, identify risks in an existing building, develop a retrofit package and plan phased works in an occupied facility, discussing practical solutions in groups.

Course Objectives

• Explain the drivers and challenges of refurbishment and retrofit projects

• Plan surveys and condition assessments of existing buildings

• Identify structural, fire and hazardous material risks in existing fabric

• Develop energy retrofit strategies for existing buildings

• Manage design development and approvals for alterations

• Plan works in occupied buildings safely and with minimal disruption

Target Audience

• Construction and project managers

• Architects and building surveyors

• Structural and building services engineers

Course content

• Facilities and estates managers

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Course outline

Detailed course outline

Day-by-day outline for Retrofit and Refurbishment of Existing Buildings.

Day 1 - The Refurbishment and Retrofit Market

- 09:00-09:34 | Why refurbishment and retrofit are growing rapidly
- 09:34-10:08 | Types of projects: upgrade, conversion and extension
- 10:08-10:42 | Distinctive risks of working with existing buildings
- 10:42-11:00 | Sustainability benefits of reusing existing structures
- 11:00-11:30 | Coffee break
- 11:30-11:46 | Sustainability benefits of reusing existing structures (continued)
- 11:46-12:20 | Lessons from successful and troubled refurbishments
- 12:20-12:53 | Stakeholders and decision makers in refurbishment
- 12:53-14:00 | Exercise: identifying risks for a conversion project

Day 2 - Surveys and Condition Assessment

- 09:00-09:30 | Measured surveys and record drawings
- 09:30-10:30 | Building condition surveys and defect schedules
- 10:30-11:00 | Structural investigation and opening up works
- 11:00-11:30 | Coffee break
- 11:30-12:00 | Asbestos and hazardous materials surveys
- 12:00-12:30 | Services surveys and capacity assessments
- 12:30-13:00 | Using laser scanning for existing buildings
- 13:00-14:00 | Workshop: planning a survey strategy

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Day 3 - Structure, Fire and Compliance

- 09:00-09:30 | Assessing structural capacity of existing frames
- 09:30-10:00 | Strengthening and alteration techniques
- 10:00-10:30 | Fire safety upgrades and compartmentation
- 10:30-11:00 | Accessibility improvements in existing buildings
- 11:00-11:30 | Coffee break
- 11:30-12:30 | Building regulations and approvals for alterations
- 12:30-13:00 | Heritage and conservation requirements
- 13:00-14:00 | Case study: converting an industrial building to offices

Day 4 - Energy Retrofit

- 09:00-09:30 | Energy performance assessment of existing buildings
- 09:30-10:00 | Fabric improvements: insulation, glazing and air tightness
- 10:00-10:30 | Heating, cooling and ventilation upgrades
- 10:30-11:00 | Renewable energy and electrification options
- 11:00-11:30 | Coffee break
- 11:30-12:00 | Avoiding moisture and overheating risks in retrofit
- 12:00-13:00 | Whole-building retrofit planning and phasing
- 13:00-14:00 | Exercise: developing an energy retrofit package

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Day 5 - Delivery, Cost and Programme Control

- 09:00-09:39 | Working in occupied buildings safely
- 09:39-10:18 | Phasing, decanting and temporary arrangements
- 10:18-10:57 | Managing noise, dust and disruption
- 10:57-11:00 | Contingency and provisional sums for unknowns
- 11:00-11:30 | Coffee break
- 11:30-12:06 | Contingency and provisional sums for unknowns (continued)
- 12:06-12:44 | Change control when hidden conditions are found
- 12:44-13:22 | Handover and post-occupancy evaluation
- 13:22-14:00 | Personal action plan for refurbishment projects

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Seminar dates

Available seminar dates

Live dates and pricing for Retrofit and Refurbishment of Existing Buildings 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**
25 - 29 January 2027	London	Classroom	**€2,915**
4 - 8 January 2027	Barcelona	Classroom	**€2,275**
11 - 15 January 2027	Frankfurt	Classroom	**€2,175**
18 - 22 January 2027	Madrid	Classroom	**€3,400**
1 - 5 February 2027	London	Classroom	**€2,915**
8 - 12 February 2027	Barcelona	Classroom	**€2,275**
15 - 19 February 2027	Frankfurt	Classroom	**€2,175**

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Seminar dates

Available seminar dates

Live dates and pricing for Retrofit and Refurbishment of Existing Buildings generated from the course details page.

Date	Location	Format	Fee
22 - 26 February 2027	Munich	Classroom	**€2,425**
8 - 12 March 2027	London	Classroom	**€2,915**
15 - 19 March 2027	Barcelona	Classroom	**€2,275**
22 - 26 March 2027	Frankfurt	Classroom	**€2,175**
1 - 5 March 2027	Paris	Classroom	**€2,810**
19 - 23 April 2027	London	Classroom	**€2,915**
26 - 30 April 2027	Barcelona	Classroom	**€2,275**
5 - 9 April 2027	Frankfurt	Classroom	**€2,175**
12 - 16 April 2027	Rome	Classroom	**€2,830**
24 - 28 May 2027	London	Classroom	**€2,915**

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Seminar dates

Available seminar dates

Live dates and pricing for Retrofit and Refurbishment of Existing Buildings generated from the course details page.

Date	Location	Format	Fee
3 - 7 May 2027	Barcelona	Classroom	**€2,275**
10 - 14 May 2027	Frankfurt	Classroom	**€2,175**
17 - 21 May 2027	Vienna	Classroom	**€3,425**
7 - 11 June 2027	London	Classroom	**€2,915**
14 - 18 June 2027	Barcelona	Classroom	**€2,275**
21 - 25 June 2027	Frankfurt	Classroom	**€2,175**
12 - 16 July 2027	London	Classroom	**€2,915**
19 - 23 July 2027	Barcelona	Classroom	**€2,275**
26 - 30 July 2027	Frankfurt	Classroom	**€2,175**
5 - 9 July 2027	Cape Town	Classroom	**€1,825**

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Seminar dates

Available seminar dates

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Date	Location	Format	Fee
16 - 20 August 2027	London	Classroom	**€2,915**
23 - 27 August 2027	Barcelona	Classroom	**€2,275**
2 - 6 August 2027	Frankfurt	Classroom	**€2,175**
9 - 13 August 2027	Dubai	Classroom	**€2,845**
6 - 10 September 2027	London	Classroom	**€2,915**
13 - 17 September 2027	Barcelona	Classroom	**€2,275**
20 - 24 September 2027	Frankfurt	Classroom	**€2,175**
4 - 8 October 2027	London	Classroom	**€2,915**
11 - 15 October 2027	Barcelona	Classroom	**€2,275**
18 - 22 October 2027	Frankfurt	Classroom	**€2,175**

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Seminar dates

Available seminar dates

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Date	Location	Format	Fee
25 - 29 October 2027	Istanbul	Classroom	**€2,825**
8 - 12 November 2027	London	Classroom	**€2,915**
15 - 19 November 2027	Barcelona	Classroom	**€2,275**
22 - 26 November 2027	Frankfurt	Classroom	**€2,175**
1 - 5 November 2027	Kuala lumpur	Classroom	**€2,425**
20 - 24 December 2027	London	Classroom	**€2,915**
27 - 31 December 2027	Barcelona	Classroom	**€2,275**
6 - 10 December 2027	Frankfurt	Classroom	**€2,175**
13 - 17 December 2027	Madrid	Classroom	**€3,400**
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**
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**
18 - 22 January 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**
22 - 26 February 2027	Online / Live	Online / Live	**€1,625**

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Date	Location	Format	Fee
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**
1 - 5 March 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**
12 - 16 April 2027	Online / Live	Online / Live	**€1,625**
24 - 28 May 2027	Online / Live	Online / Live	**€1,625**
3 - 7 May 2027	Online / Live	Online / Live	**€1,625**

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Date	Location	Format	Fee
10 - 14 May 2027	Online / Live	Online / Live	**€1,625**
17 - 21 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**
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**
5 - 9 July 2027	Online / Live	Online / Live	**€1,625**
16 - 20 August 2027	Online / Live	Online / Live	**€1,625**

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Date	Location	Format	Fee
23 - 27 August 2027	Online / Live	Online / Live	**€1,625**
2 - 6 August 2027	Online / Live	Online / Live	**€1,625**
9 - 13 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**
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**
25 - 29 October 2027	Online / Live	Online / Live	**€1,625**

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Date	Location	Format	Fee
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**
1 - 5 November 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**
13 - 17 December 2027	Online / Live	Online / Live	**€1,625**