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CONSTRUCTION MANAGEMENT | CM-053

Steel Structures Construction and Erection Management

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Course content

Why Attend

Structural steel allows fast, precise construction of buildings, industrial facilities, bridges and towers. Successful steel projects depend on close coordination between design, detailing, fabrication, transport and erection, and on careful management of lifting operations, temporary stability, connections, quality and safety on site.

This Steel Structures Construction and Erection Management training course provides a complete view of the steel construction process. Participants learn about structural steel systems and materials, design and detailing workflows, fabrication and quality control, welding and bolting, corrosion and fire protection, erection planning, crane and lifting management, temporary stability and inspection.

Course Methodology

• The course uses drawings, method statements, inspection records and case studies of steel projects and incidents. Participants plan an erection sequence, prepare a lifting plan outline, review welding and bolting inspection records and identify stability risks during erection.

Course Objectives

• Explain common structural steel systems and their behaviour

• Understand steel grades, sections and material certification

• Manage design, detailing and fabrication information flows

• Control fabrication quality including welding and bolting

• Plan corrosion protection and fire protection systems

• Develop safe erection sequences and method statements

Target Audience

• Construction and project managers

• Site and structural engineers

• Steel package managers

Course content

- Fabrication and erection supervisors

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Course outline

Detailed course outline

Day-by-day outline for Steel Structures Construction and Erection Management.

Day 1 - Structural Steel Fundamentals

- 09:00-09:34 | Advantages and uses of structural steel
- 09:34-10:08 | Frames, trusses, portals and composite systems
- 10:08-10:42 | Steel grades, sections and material properties
- 10:42-11:00 | Standards and codes for steel construction in overview
- 11:00-11:30 | Coffee break
- 11:30-11:46 | Standards and codes for steel construction in overview (continued)
- 11:46-12:20 | Load paths and stability of steel frames
- 12:20-12:53 | Lessons from steel construction incidents
- 12:53-14:00 | Exercise: reviewing a steel frame arrangement

Day 2 - Design, Detailing and Fabrication

- 09:00-09:54 | Design responsibility and connection design
- 09:54-10:21 | Detailing, shop drawings and model-based workflows
- 10:21-11:00 | Fabrication processes and workshop planning
- 11:00-11:30 | Coffee break
- 11:30-11:45 | Fabrication processes and workshop planning (continued)
- 11:45-12:12 | Material traceability and mill certificates
- 12:12-12:39 | Dimensional control and tolerances
- 12:39-13:06 | Delivery planning and transport of large members
- 13:06-14:00 | Workshop: coordinating detailing and fabrication

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Day 3 - Connections and Protection

- 09:00-09:34 | Bolted connections and tightening methods
- 09:34-10:08 | Welding processes and welder qualification
- 10:08-10:42 | Weld inspection and non-destructive testing
- 10:42-11:00 | Surface preparation and corrosion protection systems
- 11:00-11:30 | Coffee break
- 11:30-11:46 | Surface preparation and corrosion protection systems (continued)
- 11:46-12:20 | Galvanising and paint system inspection
- 12:20-12:53 | Fire protection of structural steelwork
- 12:53-14:00 | Exercise: reviewing connection inspection records

Day 4 - Erection Planning and Lifting

- 09:00-09:34 | Erection method statements and sequences
- 09:34-10:08 | Crane selection, positioning and ground bearing
- 10:08-10:42 | Lifting plans, rigging and lifting accessories
- 10:42-11:00 | Temporary bracing and stability during erection
- 11:00-11:30 | Coffee break
- 11:30-11:46 | Temporary bracing and stability during erection (continued)
- 11:46-12:20 | Working at height and fall protection
- 12:20-12:53 | Weather and wind limits for steel erection
- 12:53-14:00 | Workshop: planning an erection sequence

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Day 5 - Site Quality, Safety and Handover

- 09:00-09:39 | Surveying, alignment and plumbness checks
- 09:39-10:18 | Site welding and bolting quality control
- 10:18-10:57 | Interfaces with concrete, cladding and services
- 10:57-11:00 | Inspection test plans and acceptance records
- 11:00-11:30 | Coffee break
- 11:30-12:06 | Inspection test plans and acceptance records (continued)
- 12:06-12:44 | Handover documentation and as-built information
- 12:44-13:22 | Managing steel subcontractor performance
- 13:22-14:00 | Personal action plan for steel construction management

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Seminar dates

Available seminar dates

Live dates and pricing for Steel Structures Construction and Erection Management 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**
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	Kuala lumpur	Classroom	**€2,425**
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	Madrid	Classroom	**€3,400**
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	Munich	Classroom	**€2,425**
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	Paris	Classroom	**€2,810**
17 - 21 May 2027	London	Classroom	**€2,915**

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Seminar dates

Available seminar dates

Live dates and pricing for Steel Structures Construction and Erection Management generated from the course details page.

Date	Location	Format	Fee
24 - 28 May 2027	Barcelona	Classroom	**€2,275**
3 - 7 May 2027	Frankfurt	Classroom	**€2,175**
10 - 14 May 2027	Rome	Classroom	**€2,830**
21 - 25 June 2027	London	Classroom	**€2,915**
7 - 11 June 2027	Barcelona	Classroom	**€2,275**
14 - 18 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	Amsterdam	Classroom	**€3,215**

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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	Cape Town	Classroom	**€1,825**
20 - 24 September 2027	London	Classroom	**€2,915**
6 - 10 September 2027	Barcelona	Classroom	**€2,275**
13 - 17 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

Available seminar dates

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Date	Location	Format	Fee
18 - 22 October 2027	Geneva	Classroom	**€3,315**
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	Istanbul	Classroom	**€2,825**
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	Kuala lumpur	Classroom	**€2,425**
21 - 25 December 2026	Online / Live	Online / Live	**€1,625**

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Live dates and pricing for Steel Structures Construction and Erection Management generated from the course details page.

Date	Location	Format	Fee
7 - 11 December 2026	Online / Live	Online / Live	**€1,625**
14 - 18 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**
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**
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**
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**
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**