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CONSTRUCTION MANAGEMENT | CM-061

Airport and Aviation Infrastructure Construction Management

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Course content

Why Attend

Airports are among the most complex environments in which to build. Runways, taxiways, terminals, baggage systems, air traffic facilities and airside utilities must often be constructed or upgraded while the airport continues to operate safely, under strict aviation regulations, security controls and very limited working windows.

This Airport and Aviation Infrastructure Construction Management training course explains how to plan and deliver construction projects in airport environments. Participants learn about airport master planning and project types, aviation safety and regulatory requirements, airside and landside construction, pavement engineering, terminal and baggage system projects, construction phasing around live operations, security and operational readiness.

Course Methodology

• The course uses airport layout plans, phasing drawings and case studies from major airport projects. Participants develop a phasing plan for airside works, identify safety risks, plan security arrangements for contractors and prepare an operational readiness checklist, working in multidisciplinary groups.

Course Objectives

• Explain the components and functions of airport infrastructure

• Understand aviation safety and regulatory requirements for construction

• Plan airside works around live airport operations

• Understand airfield pavement design and construction principles

• Manage terminal, baggage and systems integration projects

• Apply security and access control requirements on airport sites

Target Audience

• Airport project managers and development managers

• Construction managers working on airport projects

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Course content

- Airport engineers and planners
- Consultants and designers for aviation projects

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Course outline

Detailed course outline

Day-by-day outline for Airport and Aviation Infrastructure Construction Management.

Day 1 - Airport Infrastructure and Planning

- 09:00-09:34 | Components of airport airside and landside infrastructure
- 09:34-10:08 | Airport master planning and capacity development
- 10:08-10:42 | Types of airport construction projects
- 10:42-11:00 | Stakeholders: operators, airlines, regulators and agencies
- 11:00-11:30 | Coffee break
- 11:30-11:46 | Stakeholders: operators, airlines, regulators and agencies (continued)
- 11:46-12:20 | Lessons from major airport expansion programmes
- 12:20-12:53 | Funding and procurement of airport projects
- 12:53-14:00 | Exercise: reviewing an airport layout plan

Day 2 - Aviation Safety and Airside Works

- 09:00-09:34 | International aviation standards in overview
- 09:34-10:08 | Obstacle limitation surfaces and height restrictions
- 10:08-10:42 | Working near runways and taxiways safely
- 10:42-11:00 | Foreign object debris prevention on construction sites
- 11:00-11:30 | Coffee break
- 11:30-11:46 | Foreign object debris prevention on construction sites (continued)
- 11:46-12:20 | Construction safety plans and airside permits
- 12:20-12:53 | Coordination with air traffic control
- 12:53-14:00 | Workshop: identifying airside construction risks

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Day 3 - Airfield Pavements and Systems

- 09:00-10:00 | Airfield pavement types and design principles
- 10:00-10:30 | Runway and taxiway construction and rehabilitation
- 10:30-11:00 | Night works and short possession planning
- 11:00-11:30 | Coffee break
- 11:30-12:00 | Airfield ground lighting and navigation aids
- 12:00-12:30 | Drainage and utilities on the airfield
- 12:30-13:00 | Pavement testing, quality and acceptance
- 13:00-14:00 | Case study: rehabilitating a runway under operations

Day 4 - Terminals, Baggage and Security

- 09:00-10:00 | Terminal building construction and refurbishment
- 10:00-10:30 | Baggage handling systems and integration
- 10:30-11:00 | Passenger processing and security screening systems
- 11:00-11:30 | Coffee break
- 11:30-12:00 | Security requirements for contractors and materials
- 12:00-12:30 | Phasing terminal works around passenger flows
- 12:30-13:00 | Systems integration and interface management
- 13:00-14:00 | Exercise: phasing a terminal expansion

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Day 5 - Operational Readiness and Transfer

- 09:00-09:39 | Operational readiness and airport transfer programmes
- 09:39-10:18 | Testing and commissioning of airport systems
- 10:18-10:57 | Trials with staff, passengers and airlines
- 10:57-11:00 | Regulatory approvals before opening
- 11:00-11:30 | Coffee break
- 11:30-12:06 | Regulatory approvals before opening (continued)
- 12:06-12:44 | Opening day planning and contingency
- 12:44-13:22 | Lessons from troubled airport openings
- 13:22-14:00 | Personal action plan for airport construction management

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Seminar dates

Available seminar dates

Live dates and pricing for Airport and Aviation Infrastructure Construction Management generated from the course details page.

Date	Location	Format	Fee
14 - 18 December 2026	London	Classroom	**€2,915**
21 - 25 December 2026	Barcelona	Classroom	**€2,275**
7 - 11 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	Dubai	Classroom	**€2,845**
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

Available seminar dates

Live dates and pricing for Airport and Aviation Infrastructure Construction Management generated from the course details page.

Date	Location	Format	Fee
15 - 19 February 2027	Geneva	Classroom	**€3,315**
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	Istanbul	Classroom	**€2,825**
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	Kuala lumpur	Classroom	**€2,425**
17 - 21 May 2027	London	Classroom	**€2,915**

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Seminar dates

Available seminar dates

Live dates and pricing for Airport and Aviation Infrastructure Construction 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	Madrid	Classroom	**€3,400**
14 - 18 June 2027	London	Classroom	**€2,915**
21 - 25 June 2027	Barcelona	Classroom	**€2,275**
7 - 11 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	Paris	Classroom	**€2,810**

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Seminar dates

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Live dates and pricing for Airport and Aviation Infrastructure Construction Management generated from the course details page.

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	Rome	Classroom	**€2,830**
13 - 17 September 2027	London	Classroom	**€2,915**
20 - 24 September 2027	Barcelona	Classroom	**€2,275**
6 - 10 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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Live dates and pricing for Airport and Aviation Infrastructure Construction Management generated from the course details page.

Date	Location	Format	Fee
18 - 22 October 2027	Amsterdam	Classroom	**€3,215**
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	Cape Town	Classroom	**€1,825**
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	Dubai	Classroom	**€2,845**
14 - 18 December 2026	Online / Live	Online / Live	**€1,625**

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Live dates and pricing for Airport and Aviation Infrastructure Construction Management generated from the course details page.

Date	Location	Format	Fee
21 - 25 December 2026	Online / Live	Online / Live	**€1,625**
7 - 11 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**
14 - 18 June 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**
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**
13 - 17 September 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**
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**