



CONSTRUCTION MANAGEMENT | CM-032

Construction Materials Testing and Inspection

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Course content

Why Attend

Construction materials such as concrete, steel, soils, aggregates and asphalt must meet specifications to ensure durability and safety. Testing and inspection verify quality.

This Aractech course covers materials specifications, sampling, laboratory and field testing for concrete, soils, aggregates, asphalt and steel, interpretation of results, acceptance criteria, non-conforming materials and quality records. Participants interpret test reports.

Course Methodology

- Technical presentations
- Test report interpretation
- Case studies
- Group discussions
- Demonstrations

Course Objectives

- Understand specifications for key construction materials
- Apply sampling procedures
- Understand laboratory and field tests
- Interpret test results against acceptance criteria
- Manage non-conforming materials
- Maintain testing records

Target Audience

- Materials engineers
- QA/QC inspectors

Course content

- Site engineers
- Laboratory technicians

Course outline

Detailed course outline

Day-by-day outline for Construction Materials Testing and Inspection.

Day 1 - Materials and Specifications

- 09:00-09:45 | Material types
- 09:45-10:30 | Specifications
- 10:30-11:00 | Standards
- 11:00-11:30 | Coffee break
- 11:30-11:45 | Standards (continued)
- 11:45-12:30 | Sampling
- 12:30-14:00 | Exercise: Specification review

Day 2 - Concrete

- 09:00-09:45 | Concrete properties
- 09:45-10:30 | Fresh testing
- 10:30-11:00 | Strength testing
- 11:00-11:30 | Coffee break
- 11:30-11:45 | Strength testing (continued)
- 11:45-12:30 | Durability
- 12:30-14:00 | Lab: Test result interpretation

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Day 3 - Soils and Aggregates

- 09:00-09:45 | Soil classification
- 09:45-10:30 | Compaction tests
- 10:30-11:00 | Aggregate tests
- 11:00-11:30 | Coffee break
- 11:30-11:45 | Aggregate tests (continued)
- 11:45-12:30 | Field testing
- 12:30-14:00 | Exercise: Compaction results

Day 4 - Asphalt and Steel

- 09:00-09:45 | Asphalt testing
- 09:45-10:30 | Steel testing
- 10:30-11:00 | Welds and bolts
- 11:00-11:30 | Coffee break
- 11:30-11:45 | Welds and bolts (continued)
- 11:45-12:30 | Certificates
- 12:30-14:00 | Case study: Material failure

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Day 5 - Non-Conformance and Records

- 09:00-09:45 | Acceptance decisions
- 09:45-10:30 | Non-conformance
- 10:30-11:00 | Records
- 11:00-11:30 | Coffee break
- 11:30-11:45 | Records (continued)
- 11:45-13:15 | Laboratory management
- 13:15-14:00 | Capstone: Testing plan

Seminar dates

Available seminar dates

Live dates and pricing for Construction Materials Testing and Inspection generated from the course details page.

Date	Location	Format	Fee
9 - 13 November 2026	London	Classroom	€2,315
14 - 18 December 2026	Frankfurt	Classroom	€1,875
18 - 22 January 2027	Barcelona	Classroom	€2,815
15 - 19 February 2027	Frankfurt	Classroom	€1,875
15 - 19 March 2027	Rome	Classroom	€3,460
19 - 23 April 2027	Kuala Lumpur	Classroom	€1,925
17 - 21 May 2027	Barcelona	Classroom	€2,815
21 - 25 June 2027	London	Classroom	€2,315
19 - 23 July 2027	Frankfurt	Classroom	€1,875
16 - 20 August 2027	Barcelona	Classroom	€2,815

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9 - 13 November 2026	Online / Live	Online / Live	€1,815
14 - 18 December 2026	Online / Live	Online / Live	€1,815
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21 - 25 June 2027	Online / Live	Online / Live	€1,815
19 - 23 July 2027	Online / Live	Online / Live	€1,815
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