



Reinforced Concrete Design: Advanced Level

Civil, Structural & Construction

QGT-CIV-122 | Advanced | 5 or 10 days | Online, classroom, in-house

Course overview

Reinforced Concrete Design: Advanced Level is an advanced programme for experienced practitioners in Reinforced Concrete Design. It covers the principles, the requirements of ACI, AISC, Eurocodes, IBC and local building codes, and the practical methods used on site, with case studies from operations in the Gulf, Africa and worldwide. Available online, in the classroom in 60 cities, or in-house.

What participants will be able to do

- Explain the principles, terminology and scope of Reinforced Concrete Design
- Apply the relevant requirements of ACI, AISC, Eurocodes, IBC and local building codes
- Apply advanced analysis methods to real operating data
- Recognise common problems, risks and root causes and choose the right corrective action
- Prepare an improvement plan for their own site or organisation

Who should attend

Designed for civil and structural engineers, site engineers, consultants and inspectors with at least three years of experience.

Course outline (5 days)

Day 1: Core principles revisited

Fast review and recent changes in ACI, AISC, Eurocodes, IBC and local building codes

Day 2: Advanced analysis methods

Detailed techniques, data interpretation and calculations

Day 3: Design and performance optimisation

Improving reliability, efficiency and cost

Day 4: Troubleshooting complex cases

Diagnosing multi-cause problems from field data

Day 5: Risk, decisions and integration

Building a risk-based plan and presenting recommendations

What the 10-day edition adds

Day 6: Applied project, part 1 – Apply the week-one methods to a case from your organisation

Day 7: Data and digital tools – Software, spreadsheets and digital tools used in practice

Day 8: Lessons from incidents and audits – What investigations and audit findings teach

Day 9: Applied project, part 2 – Complete, test and refine your solution

Day 10: Presentations and final assessment – Present to the group and complete the final assessment

Fees (USD per participant)

Duration	Live online	Classroom	In-house
5 days	\$3,000	\$5,500	On quote
10 days	\$5,500	\$9,900	On quote

Fees include course material and certificate of completion; classroom fees include refreshments and lunch. In-house training is priced per group.

Dates and cities 2027–2030

Dates	City	Format	Duration	Fee
1–12 Feb 2027	Manchester	Classroom	10 days	\$9,900
22–26 Mar 2027	Stockholm	Classroom	5 days	\$5,500
28 Mar – 8 Apr 2027	Kuwait City	Classroom	10 days	\$9,900
31 May – 4 Jun 2027	Prague	Classroom	5 days	\$5,500
19–30 Jul 2027	Online (live)	Online (live)	10 days	\$5,500
24 Jan – 4 Feb 2028	Kigali	Classroom	10 days	\$9,900
21–25 Feb 2028	Paris	Classroom	5 days	\$5,500
23 Oct – 3 Nov 2028	Edinburgh	Classroom	10 days	\$9,900
13–17 Nov 2028	Munich	Classroom	5 days	\$5,500
27 Nov – 8 Dec 2028	Online (live)	Online (live)	10 days	\$5,500
19 Feb – 2 Mar 2029	Luanda	Classroom	10 days	\$9,900
1–5 Apr 2029	Erbil	Classroom	5 days	\$5,500
19–30 Aug 2029	Alexandria	Classroom	10 days	\$9,900
3–7 Sep 2029	Copenhagen	Classroom	5 days	\$5,500
29 Oct – 9 Nov 2029	Online (live)	Online (live)	10 days	\$5,500
7–18 Jan 2030	Singapore	Classroom	10 days	\$9,900
12–16 Aug 2030	Lagos	Classroom	5 days	\$5,500
26 Aug – 6 Sep 2030	Sharjah	Classroom	10 days	\$9,900
15–19 Sep 2030	Cairo	Classroom	5 days	\$5,500
25 Nov – 6 Dec 2030	Online (live)	Online (live)	10 days	\$5,500

How to register

Register online or scan the code

<https://qimmatrainig.com/courses/reinforced-concrete-design-advanced-level/>

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