



Tunneling & Underground Construction: Advanced Level

Civil, Structural & Construction

QGT-CIV-139 | Advanced | 5 or 10 days | Online, classroom, in-house

Course overview

Tunneling & Underground Construction: Advanced Level is an advanced programme for experienced practitioners in Tunneling & Underground Construction. 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 Tunneling & Underground Construction
- 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
31 Jan – 11 Feb 2027	Alexandria	Classroom	10 days	\$9,900
21–25 Feb 2027	Erbil	Classroom	5 days	\$5,500
26 Jul – 6 Aug 2027	Johannesburg	Classroom	10 days	\$9,900
18–22 Oct 2027	Manchester	Classroom	5 days	\$5,500
22 Nov – 3 Dec 2027	Online (live)	Online (live)	10 days	\$5,500
24 Jan – 4 Feb 2028	Edinburgh	Classroom	10 days	\$9,900
21–25 Feb 2028	Vienna	Classroom	5 days	\$5,500
29 May – 9 Jun 2028	Paris	Classroom	10 days	\$9,900
30 Jul – 3 Aug 2028	Algiers	Classroom	5 days	\$5,500
18–29 Sep 2028	Online (live)	Online (live)	10 days	\$5,500
16–27 Apr 2029	Berlin	Classroom	10 days	\$9,900
3–7 Jun 2029	Kuwait City	Classroom	5 days	\$5,500
18–29 Jun 2029	Prague	Classroom	10 days	\$9,900
27–31 Aug 2029	Tunis	Classroom	5 days	\$5,500
3–14 Dec 2029	Online (live)	Online (live)	10 days	\$5,500
1–12 Apr 2030	Abu Dhabi	Classroom	10 days	\$9,900
3–7 Jun 2030	Brussels	Classroom	5 days	\$5,500
8–19 Jul 2030	Tbilisi	Classroom	10 days	\$9,900
12–16 Aug 2030	Lagos	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/tunneling-and-underground-construction-advanced-level/>

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