Garnet
Garnet Global Training Center

GGT-CV-134

Construction, Civil & Infrastructure **New from 2029**

Digital Twins for Infrastructure

التوائم الرقمية للبنية التحتية

Duration	Language	Formats	Hours	Level
5 or 10 days	**English or Arabic**	**Classroom, online, in-house**	**35 / 70**	**Intermediate (practitioner)**

Overview

Participants in Digital Twins for Infrastructure practise the methods, tools and standards they need to perform reliably and solve problems on the job. Design, construction and asset programs for buildings, roads, bridges and utilities. You can join a public session in one of 20 cities or live online, in English or Arabic, or bring the course in-house with examples from your own operations.

What you will be able to do

- Apply the methods and standards of Digital Twins for Infrastructure to real tasks.
- Interpret data and results correctly and act on them.
- Follow safe, compliant and documented work practices.
- Avoid the mistakes that most often cause rework or failure.
- Share good practice with your team.

Who should attend

Civil and structural engineers, site managers, consultants and infrastructure owners. Practitioners with one to five years of experience benefit most.

Key topics

- Codes and specifications
- Materials and testing
- Site supervision and QA/QC
- Construction safety
- Quantity surveying and cost
- BIM and digital construction

Formats and fees

5-day classroom	**USD 4,750**
5-day online	**USD 2,950**
10-day classroom	**USD 8,950**
10-day online	**USD 5,450**
In-house	**Quotation per group**

Fees per participant, excluding VAT.

Register or ask

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Email: info@garnettrainings.com

Training: training@garnettrainings.com

Web: garnettrainings.com

Sharjah Publishing City Free Zone, Sharjah, UAE

Certificate

Participants who attend at least 90% of sessions and complete the final assessment receive a certificate of completion stating 35 contact hours (5-day) or 70 contact hours (10-day).

5-day outline

Day 1 Digital Twins for Infrastructure: principles and standards

- Construction safety
- Group discussion and peer review

Day 2 Methods and tools in practice

- Quantity surveying and cost
- BIM and digital construction

Day 3 Diagnosis and problem solving

- Codes and specifications
- Measurement and reporting

Day 4 Quality, safety and documentation

- Materials and testing
- Hands-on workshop on a workplace challenge

Day 5 Workshop, assessment and action plan

- Site supervision and QA/QC
- Common mistakes and how to avoid them

10-day outline

Day 1 Digital Twins for Infrastructure: principles and standards

- Construction safety
- Group discussion and peer review

Day 2 Methods and tools in practice

- Quantity surveying and cost
- BIM and digital construction

Day 3 Diagnosis and problem solving

- Codes and specifications
- Measurement and reporting

Day 4 Quality, safety and documentation

- Materials and testing
- Hands-on workshop on a workplace challenge

Day 5 Workshop, assessment and action plan

- Site supervision and QA/QC
- Common mistakes and how to avoid them

Day 6 Advanced techniques and specialist practice

- Complex cases in depth
- Regional and international case studies

Day 7 Digital tools, data and automation

- Analysis tools and software
- Using AI in this field

Day 8 Benchmarking against international practice

- Global performance benchmarks
- Checklists and templates to take away

Day 9 Capstone project

- Analyse a real challenge from your organisation
- Build the solution and implementation plan

Day 10 Presentations, final assessment and certificates

- Project presentations and review
- Final exam and certificate award

Schedule 2027–2030

Dates	Format	City	Language	Fee (USD)
5–16 Mar 2029	10-day classroom	Geneva	English	8,950
8–12 Jul 2029	5-day classroom	Jeddah	English	4,750
13–17 Aug 2029	5-day online	Live online	English	2,950
16–20 Dec 2029	5-day classroom	Amman	English	4,750
7–11 Jan 2030	5-day classroom	Singapore	English	4,750
11–22 Feb 2030	10-day online	Live online	Arabic	5,450
3–7 Jun 2030	5-day classroom	Abu Dhabi	Arabic	4,750
13–24 Oct 2030	10-day classroom	Cairo	Arabic	8,950

Customised and in-house versions of this course are available on request. garnettrainings.com/en/customise/