Garnet
GLOBAL TRAINING CENTER

GGT-GI-113
Course brochure

GIS, Geospatial & Remote Sensing

# 3D GIS and Digital Twins for Cities

نظم المعلومات الجغرافية ثلاثية الأبعاد والتوائم الرقمية للمدن

| Duration | Format | Language | Level |
|---|---|---|---|
| **5 days (35 h) or 10 days (70 h)** | **Classroom / online / in-house** | **English or Arabic** | **Advanced** |

## Overview

3D GIS and Digital Twins for Cities is a practical GIS, Geospatial & Remote Sensing program. Build city-scale 3D models and digital twins that connect GIS, BIM and real-time sensor data. Every day pairs short theory sessions with hands-on exercises on real data and case studies, so participants leave with methods and templates they can use at work straight away. Join a public session in one of 20 cities or live online, in English or Arabic, or run it in-house with examples from your own projects.

## What you will be able to do

- Apply digital twin concepts and maturity at work.
- Apply 3D city models and CityGML at work.
- Apply BIM and reality capture integration at work.
- Apply ioT and real-time data streams at work.
- Apply use cases: planning, utilities and operations at work.

## Who should attend

GIS analysts and technicians, surveyors, planners, engineers, environmental specialists and managers who use spatial data.

## 5-day outline

**Day 1** — **Digital twin concepts and maturity**
- Worked examples from real projects
- Practical workshop

**Day 2** — **3D city models and CityGML**
- Tools, templates and best practice
- Case study and group discussion

**Day 3** — **BIM and reality capture integration**
- Concepts, methods and standards
- Hands-on exercise

**Day 4** — **IoT and real-time data streams**
- Worked examples from real projects
- Practical workshop

**Day 5** — **Use cases: planning, utilities and operations**
- Tools, templates and best practice
- Capstone exercise and action plan

**10-day option:** adds Advanced methods and tools, Industry case studies, Integration with other systems and data, Quality, standards and governance, Capstone project and presentation.

## Fees per participant

| | |
|---|---|
| 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 at your premises | **Quotation per group** |

Fees exclude VAT and include materials and the certificate of completion; classroom fees include lunch and refreshments.

## Certificate

Certificate of completion stating 35 or 70 contact hours for participants who attend at least 90% of sessions and pass the final assessment.

## Upcoming sessions

| Dates | Format | City | Language |
|---|---|---|---|
| 31 Jan – 4 Feb 2027 | 5-day classroom | Cairo | Arabic |
| 15–19 Feb 2027 | 5-day classroom | Singapore | English |
| 19–30 Apr 2027 | 10-day classroom | Singapore | English |
| 28 Jun – 2 Jul 2027 | 5-day online | Live online | Arabic |
| 14–18 Feb 2028 | 5-day classroom | Amsterdam | English |
| 19–23 Mar 2028 | 5-day classroom | Muscat | English |

Full schedule to 2030 on the course page. We can also run it on your dates, in your city or in-house.

**Register or ask**
WhatsApp +971 56 674 7382

training@garnettrainings.com
info@garnettrainings.com

garnettrainings.com
Sharjah Publishing City Free Zone, UAE