Garnet
GLOBAL TRAINING CENTER

GGT-GI-112
Course brochure

GIS, Geospatial & Remote Sensing

LiDAR Data Processing and 3D GIS

معالجة بيانات الليدار ونظم المعلومات الجغرافية ثلاثية الأبعاد

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

Overview

LiDAR Data Processing and 3D GIS is a practical GIS, Geospatial & Remote Sensing program. Process airborne and terrestrial LiDAR point clouds into terrain models, buildings and 3D scenes. 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 liDAR principles and data formats (LAS/LAZ) at work.
- Apply point cloud classification and filtering at work.
- Apply DEM, DSM and contour generation at work.
- Apply building extraction and 3D modelling at work.
- Apply 3D scenes and volumetric analysis 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 — **LiDAR principles and data formats (LAS/LAZ)**
- Tools, templates and best practice
- Case study and group discussion

Day 2 — **Point cloud classification and filtering**
- Concepts, methods and standards
- Hands-on exercise

Day 3 — **DEM, DSM and contour generation**
- Worked examples from real projects
- Practical workshop

Day 4 — **Building extraction and 3D modelling**
- Tools, templates and best practice
- Case study and group discussion

Day 5 — **3D scenes and volumetric analysis**
- Concepts, methods and standards
- 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	Kuwait City	English
21–25 Feb 2027	5-day classroom	Kuwait City	English
28 Feb – 11 Mar 2027	10-day classroom	Manama	Arabic
7–11 Jun 2027	5-day online	Live online	English
28 Feb – 3 Mar 2028	5-day classroom	London	English
3–7 Apr 2028	5-day classroom	London	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
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