Garnet
GLOBAL TRAINING CENTER

GGT-GI-110
Course brochure

GIS, Geospatial & Remote Sensing

Coordinate Systems, Datums and Map Projections

أنظمة الإحداثيات والمراجع الجيوديسية ومساقط الخرائط

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

Overview

Coordinate Systems, Datums and Map Projections is a practical GIS, Geospatial & Remote Sensing program. Get positions right: datums, projections, transformations and local grids explained for GIS and survey teams. 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 geodesy basics: ellipsoids and geoids at work.
- Apply datums and coordinate reference systems at work.
- Apply map projections and distortion at work.
- Apply transformations and local grids (UTM, national grids) at work.
- Apply troubleshooting misaligned data 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 — **Geodesy basics: ellipsoids and geoids**
- Worked examples from real projects
- Practical workshop

Day 2 — **Datums and coordinate reference systems**
- Tools, templates and best practice
- Case study and group discussion

Day 3 — **Map projections and distortion**
- Concepts, methods and standards
- Hands-on exercise

Day 4 — **Transformations and local grids (UTM, national grids)**
- Worked examples from real projects
- Practical workshop

Day 5 — **Troubleshooting misaligned data**
- 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
21–25 Feb 2027	5-day classroom	Kuwait City	Arabic
8–12 Mar 2027	5-day classroom	Istanbul	English
17–28 May 2027	10-day classroom	Singapore	English
5–9 Jul 2027	5-day online	Live online	Arabic
31 Jan – 4 Feb 2028	5-day classroom	London	English
1–5 May 2028	5-day classroom	Kuala Lumpur	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