Garnet
Garnet Global Training Center

GGT-GE-115

Geoscience, Geology & Surveying

GIS Fundamentals

أساسيات نظم المعلومات الجغرافية

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

Overview

This course builds a solid base in GIS Fundamentals, starting from first principles and moving quickly to the everyday tasks participants meet at work. Geology, geophysics, GIS and surveying for energy, mining, water and construction projects. It runs as a 5-day or 10-day program in English or Arabic, in classrooms in Dubai, Riyadh, Cairo, London, Istanbul and other cities, or live online, and can be delivered in-house.

What you will be able to do

- Explain the key concepts, terms and standards of GIS Fundamentals.
- Carry out basic tasks correctly using simple checklists and tools.
- Read and use the documents, forms and data common in this field.
- Know when to escalate and who to involve.
- Communicate confidently with specialists and colleagues.

Who should attend

Geologists, geophysicists, surveyors, GIS specialists and petroleum engineers. No prior experience is required; it also suits new hires, graduates and staff moving into this field.

Key topics

- Earth materials and structures
- Data acquisition
- Interpretation workflows
- Mapping and GIS
- Software tools
- Field case studies

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 Introduction to GIS Fundamentals
- Earth materials and structures
- Hands-on workshop on a workplace challenge

Day 2 Core concepts and terminology
- Data acquisition
- Interpretation workflows

Day 3 Basic methods and tools
- Mapping and GIS
- Common mistakes and how to avoid them

Day 4 Working safely and correctly
- Software tools
- Regional and international case studies

Day 5 Practical exercises and review
- Field case studies
- Checklists and templates to take away

10-day outline

Day 1 Introduction to GIS Fundamentals
- Earth materials and structures
- Hands-on workshop on a workplace challenge

Day 2 Core concepts and terminology
- Data acquisition
- Interpretation workflows

Day 3 Basic methods and tools
- Mapping and GIS
- Common mistakes and how to avoid them

Day 4 Working safely and correctly
- Software tools
- Regional and international case studies

Day 5 Practical exercises and review
- Field case studies
- Checklists and templates to take away

Day 6 Advanced techniques and specialist practice
- Complex cases in depth
- Group discussion and peer review

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
- Measurement and reporting

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)
4–8 Jan 2027	5-day classroom	Dubai	English	4,750
14–18 Mar 2027	5-day classroom	Cairo	English	4,750
1–12 Aug 2027	10-day classroom	Amman	English	8,950
6–10 Dec 2027	5-day online	Live online	English	2,950
2–6 Jan 2028	5-day classroom	Riyadh	English	4,750
7–18 Feb 2028	10-day classroom	Vienna	English	8,950
1–5 May 2028	5-day classroom	Istanbul	English	4,750
20 Nov – 1 Dec 2028	10-day online	Live online	English	5,450
20–24 May 2029	5-day classroom	Riyadh	English	4,750
16–20 Jul 2029	5-day online	Live online	English	2,950

Dates	Format	City	Language	Fee (USD)
3–14 Sep 2029	10-day classroom	Kuala Lumpur	English	8,950
8–12 Oct 2029	5-day classroom	Vienna	English	4,750
18–22 Feb 2030	5-day classroom	Kuala Lumpur	English	4,750
18–22 Mar 2030	5-day classroom	Istanbul	English	4,750
1–12 Apr 2030	10-day classroom	Barcelona	English	8,950
3–14 Jun 2030	10-day online	Live online	Arabic	5,450

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