Garnet
Garnet Global Training Center

GGT-GE-130

Geoscience, Geology & Surveying **New from 2028**

Machine Learning in Geoscience

تعلم الآلة في علوم الأرض

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

Overview

Machine Learning in Geoscience focuses on how the work is actually done: the methods, checks and decisions practitioners use every day, illustrated with real cases from the region. 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

- Apply the methods and standards of Machine Learning in Geoscience to real tasks.
- Follow safe, compliant and documented work practices.
- Avoid the mistakes that most often cause rework or failure.
- Share good practice with your team.
- Use the right tools, checks and calculations step by step.

Who should attend

Geologists, geophysicists, surveyors, GIS specialists and petroleum engineers. Practitioners with one to five years of experience benefit most.

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

WhatsApp: +971 56 674 7382

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 Machine Learning in Geoscience: principles and standards

- Earth materials and structures
- Measurement and reporting

Day 2 Methods and tools in practice

- Data acquisition
- Interpretation workflows

Day 3 Diagnosis and problem solving

- Mapping and GIS
- Hands-on workshop on a workplace challenge

Day 4 Quality, safety and documentation

- Software tools
- Common mistakes and how to avoid them

Day 5 Workshop, assessment and action plan

- Field case studies
- Regional and international case studies

10-day outline

Day 1 Machine Learning in Geoscience: principles and standards

- Earth materials and structures
- Measurement and reporting

Day 2 Methods and tools in practice

- Data acquisition
- Interpretation workflows

Day 3 Diagnosis and problem solving

- Mapping and GIS
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Day 4 Quality, safety and documentation

- Software tools
- Common mistakes and how to avoid them

Day 5 Workshop, assessment and action plan

- Field case studies
- Regional and international case studies

Day 6 Advanced techniques and specialist practice

- Complex cases in depth
- Checklists and templates to take away

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
- Group discussion and peer review

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)
3–14 Jan 2028	10-day classroom	Vienna	English	8,950
14–18 Feb 2028	5-day classroom	Dubai	Arabic	4,750
17–28 Jul 2028	10-day online	Live online	Arabic	5,450
21–25 Aug 2028	5-day classroom	Barcelona	English	4,750
4–8 Jun 2029	5-day online	Live online	Arabic	2,950
9–13 Jul 2029	5-day classroom	Amsterdam	English	4,750
20–24 Aug 2029	5-day classroom	Casablanca	English	4,750
5–16 Nov 2029	10-day classroom	Dubai	English	8,950
1–5 Apr 2030	5-day classroom	Abu Dhabi	English	4,750

Dates	Format	City	Language	Fee (USD)
17–28 Jun 2030	10-day online	Live online	English	5,450
15–26 Jul 2030	10-day classroom	Amsterdam	English	8,950
6–10 Oct 2030	5-day classroom	Riyadh	English	4,750

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