Garnet
GLOBAL TRAINING CENTER

GGT-GI-125
Course brochure

GIS, Geospatial & Remote Sensing

Image Classification and Change Detection

تصنيف الصور الفضائية وكشف التغيرات

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

Overview

Image Classification and Change Detection is a practical GIS, Geospatial & Remote Sensing program. Classify satellite imagery and detect land cover change with supervised, object-based and machine learning methods. 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 image preprocessing and enhancement at work.
- Apply supervised and unsupervised classification at work.
- Apply object-based image analysis at work.
- Apply machine learning classifiers and accuracy assessment at work.
- Apply change detection methods 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 — **Image preprocessing and enhancement**
- Worked examples from real projects
- Practical workshop

Day 2 — **Supervised and unsupervised classification**
- Tools, templates and best practice
- Case study and group discussion

Day 3 — **Object-based image analysis**
- Concepts, methods and standards
- Hands-on exercise

Day 4 — **Machine learning classifiers and accuracy assessment**
- Worked examples from real projects
- Practical workshop

Day 5 — **Change detection methods**
- 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
11–15 Jan 2027	5-day classroom	Paris	English
18–22 Jan 2027	5-day classroom	London	English
8–19 Mar 2027	10-day classroom	Dubai	English
31 May – 4 Jun 2027	5-day online	Live online	Arabic
6–10 Mar 2028	5-day classroom	Dubai	English
20–24 Mar 2028	5-day classroom	Singapore	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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