Garnet
GLOBAL TRAINING CENTER

GGT-GI-102
Course brochure

GIS, Geospatial & Remote Sensing

Python for GIS: ArcPy and GeoPandas

بايثون لنظم المعلومات الجغرافية: ArcPy وGeoPandas

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

Overview

Python for GIS: ArcPy and GeoPandas is a practical GIS, Geospatial & Remote Sensing program. Write Python scripts that read, analyse and map spatial data with ArcPy, GeoPandas and Rasterio. 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 python essentials for GIS at work.
- Apply arcPy: data access, cursors and geoprocessing at work.
- Apply geoPandas and Shapely for vector analysis at work.
- Apply rasterio and raster processing at work.
- Apply notebooks, automation and script tools 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 — **Python essentials for GIS**
- Worked examples from real projects
- Practical workshop

Day 2 — **ArcPy: data access, cursors and geoprocessing**
- Tools, templates and best practice
- Case study and group discussion

Day 3 — **GeoPandas and Shapely for vector analysis**
- Concepts, methods and standards
- Hands-on exercise

Day 4 — **Rasterio and raster processing**
- Worked examples from real projects
- Practical workshop

Day 5 — **Notebooks, automation and script tools**
- 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
15–19 Feb 2027	5-day classroom	Barcelona	English
22–26 Mar 2027	5-day classroom	Amsterdam	English
3–14 May 2027	10-day classroom	Istanbul	English
7–11 Jun 2027	5-day online	Live online	Arabic
24–28 Jan 2028	5-day classroom	Abu Dhabi	English
9–13 Apr 2028	5-day classroom	Riyadh	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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