Garnet
Garnet Global Training Center

GGT-DS-130

Data Science & Analytics **Rare specialisation**

Operations Research & Optimisation

بحوث العمليات والتحسين

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

Overview

Operations Research & Optimisation helps participants move from doing the work to managing it, with planning tools, control methods and reporting that management trusts. Turn data into decisions with statistics, visualisation and machine learning. Choose 5 or 10 days, classroom or live online, English or Arabic; organisations can also run it in-house and adapt the examples to their own work.

What you will be able to do

- Set up and run Operations Research & Optimisation as a managed process with clear roles.
- Lead improvement projects and measure their benefit.
- Report clearly to senior management and stakeholders.
- Manage contractors, suppliers and internal customers.
- Plan resources, budgets and schedules realistically.

Who should attend

Analysts, engineers, researchers and managers who work with data. It suits supervisors, section heads and specialists who manage, or are about to manage, this area.

Key topics

- Data preparation and cleaning
- Statistics for decisions
- Visualisation and dashboards
- Python and SQL in practice
- Predictive models
- Data storytelling

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 Operations Research & Optimisation: the management framework

- Predictive models
- Common mistakes and how to avoid them

Day 2 Planning, resources and budgets

- Data storytelling
- Data preparation and cleaning

Day 3 Performance measurement and control

- Statistics for decisions
- Regional and international case studies

Day 4 Risk, compliance and improvement

- Visualisation and dashboards
- Checklists and templates to take away

Day 5 Management case study and action plan

- Python and SQL in practice
- Group discussion and peer review

10-day outline

Day 1 Operations Research & Optimisation: the management framework

- Predictive models
- Common mistakes and how to avoid them

Day 2 Planning, resources and budgets

- Data storytelling
- Data preparation and cleaning

Day 3 Performance measurement and control

- Statistics for decisions
- Regional and international case studies

Day 4 Risk, compliance and improvement

- Visualisation and dashboards
- Checklists and templates to take away

Day 5 Management case study and action plan

- Python and SQL in practice
- Group discussion and peer review

Day 6 Advanced techniques and specialist practice

- Complex cases in depth
- Measurement and reporting

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
- Hands-on workshop on a workplace challenge

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)
8–12 Feb 2027	5-day classroom	Dubai	English	4,750
19–23 Apr 2027	5-day online	Live online	English	2,950
6–10 Sep 2027	5-day classroom	London	English	4,750
15–26 Nov 2027	10-day classroom	Amsterdam	English	8,950
16–27 Jan 2028	10-day classroom	Cairo	English	8,950
3–14 Jul 2028	10-day online	Live online	Arabic	5,450
6–10 Aug 2028	5-day classroom	Riyadh	Arabic	4,750
20–24 Nov 2028	5-day classroom	London	English	4,750
9–20 Apr 2029	10-day classroom	Amsterdam	English	8,950

Dates	Format	City	Language	Fee (USD)
13–17 Aug 2029	5-day classroom	Geneva	English	4,750
17–21 Sep 2029	5-day online	Live online	Arabic	2,950
19–23 Nov 2029	5-day classroom	Istanbul	English	4,750
14–18 Jan 2030	5-day classroom	London	English	4,750
1–12 Apr 2030	10-day online	Live online	Arabic	5,450
20–31 May 2030	10-day classroom	Istanbul	English	8,950
8–12 Dec 2030	5-day classroom	Muscat	Arabic	4,750

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