Garnet
Garnet Global Training Center

GGT-SA-101

Space & Satellite Applications **Rare specialisation**

Space Systems Engineering Fundamentals

أساسيات هندسة أنظمة الفضاء

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

Overview

Space Systems Engineering Fundamentals is designed for people who are new to the subject, or who need a structured refresher before taking on more responsibility. The fast-growing space sector: satellites, earth observation and space business. You can join a public session in one of 20 cities or live online, in English or Arabic, or bring the course in-house with examples from your own operations.

What you will be able to do

- Explain the key concepts, terms and standards of Space Systems Engineering Fundamentals.
- Plan the next steps in your own learning.
- Recognise the main hazards, errors and misconceptions newcomers face.
- Carry out basic tasks correctly using simple checklists and tools.
- Read and use the documents, forms and data common in this field.

Who should attend

Engineers, analysts, policy makers and managers entering the space sector. No prior experience is required; it also suits new hires, graduates and staff moving into this field.

Key topics

- Space systems basics
- Satellite missions
- Earth observation data
- Space policy and law
- Space business
- Applications on the ground

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 Space Systems Engineering Fundamentals

- Space policy and law
- Measurement and reporting

Day 2 Core concepts and terminology

- Space business
- Applications on the ground

Day 3 Basic methods and tools

- Space systems basics
- Hands-on workshop on a workplace challenge

Day 4 Working safely and correctly

- Satellite missions
- Common mistakes and how to avoid them

Day 5 Practical exercises and review

- Earth observation data
- Regional and international case studies

10-day outline

Day 1 Introduction to Space Systems Engineering Fundamentals

- Space policy and law
- Measurement and reporting

Day 2 Core concepts and terminology

- Space business
- Applications on the ground

Day 3 Basic methods and tools

- Space systems basics
- Hands-on workshop on a workplace challenge

Day 4 Working safely and correctly

- Satellite missions
- Common mistakes and how to avoid them

Day 5 Practical exercises and review

- Earth observation data
- 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)
8–12 Mar 2027	5-day classroom	Dubai	Arabic	4,750
12–23 Apr 2027	10-day classroom	Kuala Lumpur	English	8,950
10–14 May 2027	5-day online	Live online	Arabic	2,950
9–13 Aug 2027	5-day classroom	Barcelona	English	4,750
10–21 Jan 2028	10-day online	Live online	Arabic	5,450
3–7 Jul 2028	5-day classroom	Vienna	English	4,750
16–27 Oct 2028	10-day classroom	London	English	8,950
6–10 Nov 2028	5-day classroom	Abu Dhabi	English	4,750
12–16 Feb 2029	5-day online	Live online	English	2,950

Dates	Format	City	Language	Fee (USD)
7–18 May 2029	10-day classroom	London	English	8,950
8–12 Jul 2029	5-day classroom	Kuwait City	Arabic	4,750
3–7 Dec 2029	5-day classroom	Abu Dhabi	Arabic	4,750
21 Jan – 1 Feb 2030	10-day classroom	Amsterdam	English	8,950
4–15 Mar 2030	10-day online	Live online	Arabic	5,450
10–14 Jun 2030	5-day classroom	Istanbul	English	4,750
18–22 Nov 2030	5-day classroom	Kuala Lumpur	English	4,750

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