Garnet
Garnet Global Training Center

GGT-TC-119

Telecommunications

Telecommunications Fundamentals

أساسيات الاتصالات

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

Overview

This course builds a solid base in Telecommunications Fundamentals, starting from first principles and moving quickly to the everyday tasks participants meet at work. Network, spectrum and service programs for operators and enterprise telecom teams. 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 Telecommunications Fundamentals.
- Know when to escalate and who to involve.
- Communicate confidently with specialists and colleagues.
- Plan the next steps in your own learning.
- Recognise the main hazards, errors and misconceptions newcomers face.

Who should attend

Telecom engineers, network planners, operations and regulatory staff. No prior experience is required; it also suits new hires, graduates and staff moving into this field.

Key topics

- Network architecture
- Radio and spectrum
- Fibre and transmission
- Service assurance
- Regulation and licensing
- Emerging technologies

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 Telecommunications Fundamentals

- Radio and spectrum
- Regional and international case studies

Day 2 Core concepts and terminology

- Fibre and transmission
- Service assurance

Day 3 Basic methods and tools

- Regulation and licensing
- Checklists and templates to take away

Day 4 Working safely and correctly

- Emerging technologies
- Group discussion and peer review

Day 5 Practical exercises and review

- Network architecture
- Measurement and reporting

10-day outline

Day 1 Introduction to Telecommunications Fundamentals

- Radio and spectrum
- Regional and international case studies

Day 2 Core concepts and terminology

- Fibre and transmission
- Service assurance

Day 3 Basic methods and tools

- Regulation and licensing
- Checklists and templates to take away

Day 4 Working safely and correctly

- Emerging technologies
- Group discussion and peer review

Day 5 Practical exercises and review

- Network architecture
- Measurement and reporting

Day 6 Advanced techniques and specialist practice

- Complex cases in depth
- Hands-on workshop on a workplace challenge

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
- Common mistakes and how to avoid them

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)
18–22 Jan 2027	5-day online	Live online	Arabic	2,950
2–6 May 2027	5-day classroom	Amman	Arabic	4,750
21 Jun – 2 Jul 2027	10-day classroom	Vienna	English	8,950
2–6 Aug 2027	5-day classroom	Abu Dhabi	Arabic	4,750
3–7 Apr 2028	5-day classroom	Istanbul	English	4,750
7–18 May 2028	10-day classroom	Amman	Arabic	8,950
12–23 Jun 2028	10-day online	Live online	English	5,450
21–25 Aug 2028	5-day classroom	Geneva	English	4,750
5–9 Mar 2029	5-day classroom	Abu Dhabi	English	4,750

Dates	Format	City	Language	Fee (USD)
14–18 May 2029	5-day classroom	Dubai	Arabic	4,750
12–23 Aug 2029	10-day classroom	Jeddah	Arabic	8,950
3–7 Sep 2029	5-day online	Live online	English	2,950
7–11 Jan 2030	5-day classroom	Paris	English	4,750
10–21 Jun 2030	10-day online	Live online	Arabic	5,450
10–14 Nov 2030	5-day classroom	Manama	English	4,750
16–27 Dec 2030	10-day classroom	Vienna	English	8,950

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