Garnet
Garnet Global Training Center

GGT-RL-101

Railways & Metro Systems **Rare specialisation**

Railway Systems Fundamentals

أساسيات أنظمة السكك الحديدية

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 Railway Systems Fundamentals, starting from first principles and moving quickly to the everyday tasks participants meet at work. Operation, maintenance and safety of rail, metro and tram systems. 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

- Explain the key concepts, terms and standards of Railway Systems Fundamentals.
- 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.
- Know when to escalate and who to involve.

Who should attend

Rail operators, rolling stock and infrastructure engineers, signalling and safety staff. No prior experience is required; it also suits new hires, graduates and staff moving into this field.

Key topics

- Railway systems overview
- Rolling stock
- Track and infrastructure
- Signalling and control
- Operations and timetabling
- Safety and assurance

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 Railway Systems Fundamentals
- Signalling and control
- Hands-on workshop on a workplace challenge

Day 2 Core concepts and terminology
- Operations and timetabling
- Safety and assurance

Day 3 Basic methods and tools
- Railway systems overview
- Common mistakes and how to avoid them

Day 4 Working safely and correctly
- Rolling stock
- Regional and international case studies

Day 5 Practical exercises and review
- Track and infrastructure
- Checklists and templates to take away

10-day outline

Day 1 Introduction to Railway Systems Fundamentals
- Signalling and control
- Hands-on workshop on a workplace challenge

Day 2 Core concepts and terminology
- Operations and timetabling
- Safety and assurance

Day 3 Basic methods and tools
- Railway systems overview
- Common mistakes and how to avoid them

Day 4 Working safely and correctly
- Rolling stock
- Regional and international case studies

Day 5 Practical exercises and review
- Track and infrastructure
- Checklists and templates to take away

Day 6 Advanced techniques and specialist practice
- Complex cases in depth
- Group discussion and peer review

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
- Measurement and reporting

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)
17–28 Jan 2027	10-day classroom	Amman	Arabic	8,950
7–11 Feb 2027	5-day classroom	Doha	Arabic	4,750
8–12 Mar 2027	5-day online	Live online	Arabic	2,950
18–22 Oct 2027	5-day classroom	Dubai	Arabic	4,750
9–13 Jan 2028	5-day classroom	Manama	Arabic	4,750
6–10 Mar 2028	5-day classroom	Barcelona	English	4,750
11–22 Sep 2028	10-day classroom	Paris	English	8,950
2–13 Oct 2028	10-day online	Live online	Arabic	5,450
16–20 Apr 2029	5-day online	Live online	Arabic	2,950
8–12 Jul 2029	5-day classroom	Manama	Arabic	4,750

Dates	Format	City	Language	Fee (USD)
1–5 Oct 2029	5-day classroom	Barcelona	English	4,750
17–28 Dec 2029	10-day classroom	Abu Dhabi	Arabic	8,950
4–15 Feb 2030	10-day online	Live online	Arabic	5,450
14–25 Apr 2030	10-day classroom	Riyadh	English	8,950
6–10 May 2030	5-day classroom	Geneva	English	4,750
16–20 Sep 2030	5-day classroom	Barcelona	English	4,750

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