Garnet
Garnet Global Training Center

GGT-RL-107

Railways & Metro Systems **Rare specialisation**

Railway Electrification & Traction Power

كهربة السكك الحديدية وطاقة الجر

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

Overview

Participants in Railway Electrification & Traction Power practise the methods, tools and standards they need to perform reliably and solve problems on the job. 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

- Apply the methods and standards of Railway Electrification & Traction Power to real tasks.
- Diagnose common problems and identify root causes.
- Interpret data and results correctly and act on them.
- Follow safe, compliant and documented work practices.
- Avoid the mistakes that most often cause rework or failure.

Who should attend

Rail operators, rolling stock and infrastructure engineers, signalling and safety staff. Practitioners with one to five years of experience benefit most.

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 Railway Electrification & Traction Power: principles and standards

- Rolling stock
- Hands-on workshop on a workplace challenge

Day 2 Methods and tools in practice

- Track and infrastructure
- Signalling and control

Day 3 Diagnosis and problem solving

- Operations and timetabling
- Common mistakes and how to avoid them

Day 4 Quality, safety and documentation

- Safety and assurance
- Regional and international case studies

Day 5 Workshop, assessment and action plan

- Railway systems overview
- Checklists and templates to take away

10-day outline

Day 1 Railway Electrification & Traction Power: principles and standards

- Rolling stock
- Hands-on workshop on a workplace challenge

Day 2 Methods and tools in practice

- Track and infrastructure
- Signalling and control

Day 3 Diagnosis and problem solving

- Operations and timetabling
- Common mistakes and how to avoid them

Day 4 Quality, safety and documentation

- Safety and assurance
- Regional and international case studies

Day 5 Workshop, assessment and action plan

- Railway systems overview
- 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)
15–19 Feb 2027	5-day classroom	Dubai	English	4,750
19–23 Apr 2027	5-day online	Live online	Arabic	2,950
8–12 Aug 2027	5-day classroom	Doha	Arabic	4,750
15–26 Nov 2027	10-day classroom	Vienna	English	8,950
21 Feb – 3 Mar 2028	10-day online	Live online	English	5,450
3–14 Apr 2028	10-day classroom	Paris	English	8,950
17–21 Jul 2028	5-day classroom	Singapore	English	4,750
4–8 Sep 2028	5-day classroom	Geneva	English	4,750
21–25 Jan 2029	5-day classroom	Jeddah	English	4,750

Dates	Format	City	Language	Fee (USD)
19–23 Feb 2029	5-day online	Live online	English	2,950
11–15 Jun 2029	5-day classroom	Singapore	English	4,750
5–16 Nov 2029	10-day classroom	Istanbul	English	8,950
13–24 Jan 2030	10-day classroom	Riyadh	English	8,950
5–9 May 2030	5-day classroom	Cairo	Arabic	4,750
16–20 Sep 2030	5-day classroom	Barcelona	English	4,750
2–13 Dec 2030	10-day online	Live online	English	5,450

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