Garnet
Garnet Global Training Center

GGT-RL-121

Railways & Metro Systems **Rare specialisation**

Rail Vehicle Dynamics

ديناميكيات المركبات السككية

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

Overview

Rail Vehicle Dynamics focuses on how the work is actually done: the methods, checks and decisions practitioners use every day, illustrated with real cases from the region. Operation, maintenance and safety of rail, metro and tram systems. It runs as a 5-day or 10-day program in English or Arabic, in classrooms in Dubai, Riyadh, Cairo, London, Istanbul and other cities, or live online, and can be delivered in-house.

What you will be able to do

- Apply the methods and standards of Rail Vehicle Dynamics to real tasks.
- Follow safe, compliant and documented work practices.
- Avoid the mistakes that most often cause rework or failure.
- Share good practice with your team.
- Use the right tools, checks and calculations step by step.

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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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 Rail Vehicle Dynamics: principles and standards
- Rolling stock
- Common mistakes and how to avoid them

Day 2 Methods and tools in practice
- Track and infrastructure
- Signalling and control

Day 3 Diagnosis and problem solving
- Operations and timetabling
- Regional and international case studies

Day 4 Quality, safety and documentation
- Safety and assurance
- Checklists and templates to take away

Day 5 Workshop, assessment and action plan
- Railway systems overview
- Group discussion and peer review

10-day outline

Day 1 Rail Vehicle Dynamics: principles and standards
- Rolling stock
- Common mistakes and how to avoid them

Day 2 Methods and tools in practice
- Track and infrastructure
- Signalling and control

Day 3 Diagnosis and problem solving
- Operations and timetabling
- Regional and international case studies

Day 4 Quality, safety and documentation
- Safety and assurance
- Checklists and templates to take away

Day 5 Workshop, assessment and action plan
- Railway systems overview
- 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)
3–7 May 2027	5-day online	Live online	English	2,950
6–17 Jun 2027	10-day classroom	Kuwait City	Arabic	8,950
12–16 Sep 2027	5-day classroom	Manama	English	4,750
15–19 Nov 2027	5-day classroom	Paris	English	4,750
10–21 Jan 2028	10-day online	Live online	English	5,450
19–30 Mar 2028	10-day classroom	Amman	English	8,950
3–7 Apr 2028	5-day classroom	London	English	4,750
4–8 Jun 2028	5-day classroom	Cairo	English	4,750
15–19 Apr 2029	5-day classroom	Riyadh	Arabic	4,750
20–31 May 2029	10-day classroom	Jeddah	English	8,950

Dates	Format	City	Language	Fee (USD)
6–10 Aug 2029	5-day online	Live online	English	2,950
1–5 Oct 2029	5-day classroom	Barcelona	English	4,750
3–14 Feb 2030	10-day classroom	Doha	English	8,950
10–21 Jun 2030	10-day online	Live online	Arabic	5,450
14–18 Jul 2030	5-day classroom	Amman	English	4,750
18–22 Aug 2030	5-day classroom	Cairo	Arabic	4,750

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