Garnet
Garnet Global Training Center

GGT-EI-125

Electrical, Instrumentation & Control

Industrial Networks: Modbus, Profibus & Ethernet/IP

الشبكات الصناعية Modbus وProfibus وEthernet/IP

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

Overview

Industrial Networks: Modbus, Profibus & Ethernet/IP turns established good practice into step-by-step methods that participants rehearse in exercises and then apply at work. Power, protection and automation skills for plants, utilities and smart infrastructure. 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 Industrial Networks: Modbus, Profibus & Ethernet/IP to real tasks.
- 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.
- Diagnose common problems and identify root causes.

Who should attend

Electrical, instrumentation and control engineers, technicians and maintenance leads. Practitioners with one to five years of experience benefit most.

Key topics

- Power system fundamentals and studies
- Protection, earthing and safety
- Control system architecture
- Field devices and loop checking
- IEC and IEEE standards
- Troubleshooting with real fault records

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 Industrial Networks: Modbus, Profibus & Ethernet/IP: principles and standards

- IEC and IEEE standards
- Group discussion and peer review

Day 2 Methods and tools in practice

- Troubleshooting with real fault records
- Power system fundamentals and studies

Day 3 Diagnosis and problem solving

- Protection, earthing and safety
- Measurement and reporting

Day 4 Quality, safety and documentation

- Control system architecture
- Hands-on workshop on a workplace challenge

Day 5 Workshop, assessment and action plan

- Field devices and loop checking
- Common mistakes and how to avoid them

10-day outline

Day 1 Industrial Networks: Modbus, Profibus & Ethernet/IP: principles and standards

- IEC and IEEE standards
- Group discussion and peer review

Day 2 Methods and tools in practice

- Troubleshooting with real fault records
- Power system fundamentals and studies

Day 3 Diagnosis and problem solving

- Protection, earthing and safety
- Measurement and reporting

Day 4 Quality, safety and documentation

- Control system architecture
- Hands-on workshop on a workplace challenge

Day 5 Workshop, assessment and action plan

- Field devices and loop checking
- Common mistakes and how to avoid them

Day 6 Advanced techniques and specialist practice

- Complex cases in depth
- Regional and international case studies

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
- Checklists and templates to take away

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)
18–29 Apr 2027	10-day classroom	Cairo	Arabic	8,950
16–20 Aug 2027	5-day classroom	London	English	4,750
20–24 Sep 2027	5-day online	Live online	Arabic	2,950
1–5 Nov 2027	5-day classroom	Dubai	Arabic	4,750
6–17 Mar 2028	10-day classroom	Casablanca	English	8,950
1–5 May 2028	5-day classroom	Abu Dhabi	Arabic	4,750
21 Aug – 1 Sep 2028	10-day online	Live online	Arabic	5,450
4–8 Sep 2028	5-day classroom	Geneva	English	4,750
1–5 Jan 2029	5-day classroom	Abu Dhabi	Arabic	4,750

Dates	Format	City	Language	Fee (USD)
20–24 Aug 2029	5-day classroom	Istanbul	English	4,750
16–27 Sep 2029	10-day classroom	Manama	Arabic	8,950
3–7 Dec 2029	5-day online	Live online	Arabic	2,950
21–25 Jan 2030	5-day classroom	Dubai	English	4,750
12–23 Aug 2030	10-day classroom	Abu Dhabi	Arabic	8,950
4–8 Nov 2030	5-day classroom	London	English	4,750
2–13 Dec 2030	10-day online	Live online	Arabic	5,450

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