Garnet
Garnet Global Training Center

GGT-EI-103

Electrical, Instrumentation & Control

PLC, SCADA & DCS Systems

أنظمة PLC وSCADA وDCS

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

Overview

PLC, SCADA & DCS Systems focuses on how the work is actually done: the methods, checks and decisions practitioners use every day, illustrated with real cases from the region. Power, protection and automation skills for plants, utilities and smart infrastructure. 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

- Apply the methods and standards of PLC, SCADA & DCS Systems 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 PLC, SCADA & DCS Systems: principles and standards
- Troubleshooting with real fault records
- Checklists and templates to take away

Day 2 Methods and tools in practice
- Power system fundamentals and studies
- Protection, earthing and safety

Day 3 Diagnosis and problem solving
- Control system architecture
- Group discussion and peer review

Day 4 Quality, safety and documentation
- Field devices and loop checking
- Measurement and reporting

Day 5 Workshop, assessment and action plan
- IEC and IEEE standards
- Hands-on workshop on a workplace challenge

10-day outline

Day 1 PLC, SCADA & DCS Systems: principles and standards
- Troubleshooting with real fault records
- Checklists and templates to take away

Day 2 Methods and tools in practice
- Power system fundamentals and studies
- Protection, earthing and safety

Day 3 Diagnosis and problem solving
- Control system architecture
- Group discussion and peer review

Day 4 Quality, safety and documentation
- Field devices and loop checking
- Measurement and reporting

Day 5 Workshop, assessment and action plan
- IEC and IEEE standards
- Hands-on workshop on a workplace challenge

Day 6 Advanced techniques and specialist practice
- Complex cases in depth
- Common mistakes and how to avoid them

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
- Regional and international case studies

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)
8–19 Mar 2027	10-day classroom	Barcelona	English	8,950
7–11 Jun 2027	5-day classroom	Dubai	Arabic	4,750
4–8 Oct 2027	5-day online	Live online	English	2,950
19–23 Dec 2027	5-day classroom	Riyadh	English	4,750
3–14 Jan 2028	10-day classroom	Amsterdam	English	8,950
7–11 Feb 2028	5-day classroom	Dubai	English	4,750
5–16 Jun 2028	10-day online	Live online	English	5,450
2–6 Jul 2028	5-day classroom	Cairo	Arabic	4,750
21–25 Jan 2029	5-day classroom	Kuwait City	English	4,750

Dates	Format	City	Language	Fee (USD)
12–16 Feb 2029	5-day classroom	Amsterdam	English	4,750
5–16 Mar 2029	10-day classroom	Dubai	English	8,950
10–14 Sep 2029	5-day online	Live online	Arabic	2,950
4–15 Mar 2030	10-day online	Live online	English	5,450
15–26 Jul 2030	10-day classroom	Kuala Lumpur	English	8,950
19–23 Aug 2030	5-day classroom	Amsterdam	English	4,750
9–13 Sep 2030	5-day classroom	Dubai	Arabic	4,750

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