Garnet
Garnet Global Training Center

GGT-EI-104

Electrical, Instrumentation & Control

Process Instrumentation & Calibration

أجهزة القياس الصناعية والمعايرة

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

Overview

Participants in Process Instrumentation & Calibration practise the methods, tools and standards they need to perform reliably and solve problems on the job. Power, protection and automation skills for plants, utilities and smart infrastructure. 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 Process Instrumentation & Calibration to real tasks.
- 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.
- Share good practice with your team.

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

WhatsApp: +971 56 674 7382

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 Process Instrumentation & Calibration: principles and standards
- Field devices and loop checking
- Hands-on workshop on a workplace challenge

Day 2 Methods and tools in practice
- IEC and IEEE standards
- Troubleshooting with real fault records

Day 3 Diagnosis and problem solving
- Power system fundamentals and studies
- Common mistakes and how to avoid them

Day 4 Quality, safety and documentation
- Protection, earthing and safety
- Regional and international case studies

Day 5 Workshop, assessment and action plan
- Control system architecture
- Checklists and templates to take away

10-day outline

Day 1 Process Instrumentation & Calibration: principles and standards
- Field devices and loop checking
- Hands-on workshop on a workplace challenge

Day 2 Methods and tools in practice
- IEC and IEEE standards
- Troubleshooting with real fault records

Day 3 Diagnosis and problem solving
- Power system fundamentals and studies
- Common mistakes and how to avoid them

Day 4 Quality, safety and documentation
- Protection, earthing and safety
- Regional and international case studies

Day 5 Workshop, assessment and action plan
- Control system architecture
- 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)
18–22 Jan 2027	5-day classroom	Dubai	Arabic	4,750
14–25 Feb 2027	10-day classroom	Cairo	English	8,950
7–11 Mar 2027	5-day classroom	Doha	English	4,750
2–6 Aug 2027	5-day online	Live online	English	2,950
12–16 Mar 2028	5-day classroom	Amman	Arabic	4,750
17–21 Apr 2028	5-day classroom	Singapore	English	4,750
7–18 Aug 2028	10-day classroom	Istanbul	English	8,950
16–27 Oct 2028	10-day online	Live online	English	5,450
4–15 Mar 2029	10-day classroom	Jeddah	English	8,950

Dates	Format	City	Language	Fee (USD)
6–10 May 2029	5-day classroom	Doha	English	4,750
20–24 Aug 2029	5-day online	Live online	Arabic	2,950
9–13 Sep 2029	5-day classroom	Cairo	Arabic	4,750
18–22 Mar 2030	5-day classroom	Kuala Lumpur	English	4,750
21–25 Apr 2030	5-day classroom	Doha	English	4,750
10–21 Jun 2030	10-day online	Live online	Arabic	5,450
18–29 Nov 2030	10-day classroom	London	English	8,950

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