Garnet
Garnet Global Training Center

GGT-EI-106

Electrical, Instrumentation & Control

Hazardous Area Classification & Ex Equipment

تصنيف المناطق الخطرة ومعدات Ex

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

Overview

Hazardous Area Classification & Ex Equipment 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. 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 Hazardous Area Classification & Ex Equipment to real tasks.
- Use the right tools, checks and calculations step by step.
- Diagnose common problems and identify root causes.
- Interpret data and results correctly and act on them.
- Follow safe, compliant and documented work practices.

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 Hazardous Area Classification & Ex Equipment: principles and standards

- Field devices and loop checking
- Measurement and reporting

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
- Hands-on workshop on a workplace challenge

Day 4 Quality, safety and documentation

- Protection, earthing and safety
- Common mistakes and how to avoid them

Day 5 Workshop, assessment and action plan

- Control system architecture
- Regional and international case studies

10-day outline

Day 1 Hazardous Area Classification & Ex Equipment: principles and standards

- Field devices and loop checking
- Measurement and reporting

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
- Hands-on workshop on a workplace challenge

Day 4 Quality, safety and documentation

- Protection, earthing and safety
- Common mistakes and how to avoid them

Day 5 Workshop, assessment and action plan

- Control system architecture
- Regional and international case studies

Day 6 Advanced techniques and specialist practice

- Complex cases in depth
- Checklists and templates to take away

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
- Group discussion and peer review

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)
1–5 Feb 2027	5-day online	Live online	English	2,950
1–5 Mar 2027	5-day classroom	Abu Dhabi	Arabic	4,750
4–15 Jul 2027	10-day classroom	Doha	English	8,950
16–20 Aug 2027	5-day classroom	Paris	English	4,750
21 Feb – 3 Mar 2028	10-day online	Live online	Arabic	5,450
2–6 Apr 2028	5-day classroom	Cairo	Arabic	4,750
21 Aug – 1 Sep 2028	10-day classroom	Istanbul	English	8,950
18–22 Dec 2028	5-day classroom	Abu Dhabi	English	4,750
8–12 Jan 2029	5-day classroom	Barcelona	English	4,750

Dates	Format	City	Language	Fee (USD)
5–16 Mar 2029	10-day classroom	Istanbul	English	8,950
9–13 Apr 2029	5-day online	Live online	English	2,950
10–14 Dec 2029	5-day classroom	Abu Dhabi	Arabic	4,750
11–15 Feb 2030	5-day classroom	Casablanca	Arabic	4,750
8–12 Apr 2030	5-day classroom	Istanbul	English	4,750
13–24 May 2030	10-day online	Live online	Arabic	5,450
7–18 Jul 2030	10-day classroom	Riyadh	Arabic	8,950

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