Garnet
Garnet Global Training Center

GGT-EI-109

Electrical, Instrumentation & Control

Variable Frequency Drives & Motor Control

محركات التردد المتغير والتحكم في المحركات

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

Overview

Variable Frequency Drives & Motor Control equips managers and specialists to plan, organise and control this area of work, set targets and measure results. 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

- Set up and run Variable Frequency Drives & Motor Control as a managed process with clear roles.
- Lead improvement projects and measure their benefit.
- Report clearly to senior management and stakeholders.
- Manage contractors, suppliers and internal customers.
- Plan resources, budgets and schedules realistically.

Who should attend

Electrical, instrumentation and control engineers, technicians and maintenance leads. It suits supervisors, section heads and specialists who manage, or are about to manage, this area.

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 Variable Frequency Drives & Motor Control: the management framework

- IEC and IEEE standards
- Checklists and templates to take away

Day 2 Planning, resources and budgets

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

Day 3 Performance measurement and control

- Protection, earthing and safety
- Group discussion and peer review

Day 4 Risk, compliance and improvement

- Control system architecture
- Measurement and reporting

Day 5 Management case study and action plan

- Field devices and loop checking
- Hands-on workshop on a workplace challenge

10-day outline

Day 1 Variable Frequency Drives & Motor Control: the management framework

- IEC and IEEE standards
- Checklists and templates to take away

Day 2 Planning, resources and budgets

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

Day 3 Performance measurement and control

- Protection, earthing and safety
- Group discussion and peer review

Day 4 Risk, compliance and improvement

- Control system architecture
- Measurement and reporting

Day 5 Management case study and action plan

- Field devices and loop checking
- 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)
12–16 Apr 2027	5-day classroom	Paris	English	4,750
3–14 May 2027	10-day classroom	Barcelona	English	8,950
13–17 Sep 2027	5-day online	Live online	English	2,950
14–18 Nov 2027	5-day classroom	Kuwait City	Arabic	4,750
3–7 Apr 2028	5-day classroom	Istanbul	English	4,750
21 May – 1 Jun 2028	10-day classroom	Jeddah	Arabic	8,950
10–21 Jul 2028	10-day online	Live online	English	5,450
4–8 Dec 2028	5-day classroom	Abu Dhabi	Arabic	4,750
5–9 Mar 2029	5-day classroom	Abu Dhabi	Arabic	4,750

Dates	Format	City	Language	Fee (USD)
16–20 Apr 2029	5-day classroom	Dubai	Arabic	4,750
8–12 Oct 2029	5-day online	Live online	Arabic	2,950
18–29 Nov 2029	10-day classroom	Amman	English	8,950
1–12 Apr 2030	10-day classroom	London	English	8,950
9–13 Jun 2030	5-day classroom	Riyadh	English	4,750
5–9 Aug 2030	5-day classroom	Istanbul	English	4,750
11–22 Nov 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/