



Variable Frequency Drives (VFD)

Electrical Engineering

QGT-ELE-106 | Foundation | 5 or 10 days | Online, classroom, in-house

Course overview

Variable Frequency Drives (VFD) is an introduction that builds a solid working knowledge in Variable Frequency Drives (VFD). It covers the principles, the requirements of IEC, IEEE and NFPA 70/70E, and the practical methods used on site, with case studies from operations in the Gulf, Africa and worldwide. Available online, in the classroom in 60 cities, or in-house.

What participants will be able to do

- Explain the principles, terminology and scope of Variable Frequency Drives (VFD)
- Apply the relevant requirements of IEC, IEEE and NFPA 70/70E
- Use practical tools, checklists and calculations with confidence
- Recognise common problems, risks and root causes and choose the right corrective action
- Prepare an improvement plan for their own site or organisation

Who should attend

Designed for electrical engineers, technicians, supervisors and authorised persons, new joiners and anyone who needs a solid grounding in the subject.

Course outline (5 days)

Day 1: Principles and terminology

Scope, key definitions and how Variable Frequency Drives (VFD) fits into daily operations

Day 2: Codes, standards and requirements

What IEC, IEEE and NFPA 70/70E require, and how to read them

Day 3: Methods, tools and calculations

Step-by-step methods, checklists and worked examples

Day 4: Operation, inspection and common problems

Typical failures, warning signs and what to do about them

Day 5: Case studies, workshop and assessment

Group exercise on real cases and a final knowledge check

What the 10-day edition adds

Day 6: Applied project, part 1 – Apply the week-one methods to a case from your organisation

Day 7: Data and digital tools – Software, spreadsheets and digital tools used in practice

Day 8: Lessons from incidents and audits – What investigations and audit findings teach

Day 9: Applied project, part 2 – Complete, test and refine your solution

Day 10: Presentations and final assessment – Present to the group and complete the final assessment

Fees (USD per participant)

Duration	Live online	Classroom	In-house
5 days	\$3,000	\$5,500	On quote
10 days	\$5,500	\$9,900	On quote

Fees include course material and certificate of completion; classroom fees include refreshments and lunch. In-house training is priced per group.

Dates and cities 2027–2030

Dates	City	Format	Duration	Fee
18–22 Apr 2027	Riyadh	Classroom	5 days	\$5,500
31 May – 11 Jun 2027	Abu Dhabi	Classroom	10 days	\$9,900
7–11 Jun 2027	Lisbon	Classroom	5 days	\$5,500
6–17 Sep 2027	Brussels	Classroom	10 days	\$9,900
25–29 Oct 2027	Online (live)	Online (live)	5 days	\$3,000
16–20 Apr 2028	Jeddah	Classroom	5 days	\$5,500
7–18 May 2028	Al Khobar	Classroom	10 days	\$9,900
22–26 May 2028	Dublin	Classroom	5 days	\$5,500
23 Jul – 3 Aug 2028	Dammam	Classroom	10 days	\$9,900
14–18 Aug 2028	Online (live)	Online (live)	5 days	\$3,000
11–15 Mar 2029	Algiers	Classroom	5 days	\$5,500
23 Apr – 4 May 2029	Madrid	Classroom	10 days	\$9,900
21–25 May 2029	Kigali	Classroom	5 days	\$5,500
10–21 Jun 2029	Sharm El Sheikh	Classroom	10 days	\$9,900
1–5 Oct 2029	Online (live)	Online (live)	5 days	\$3,000
11–15 Mar 2030	Manchester	Classroom	5 days	\$5,500
20–31 May 2030	Budapest	Classroom	10 days	\$9,900
17–21 Jun 2030	Kuala Lumpur	Classroom	5 days	\$5,500
22 Jul – 2 Aug 2030	Lisbon	Classroom	10 days	\$9,900
2–6 Dec 2030	Online (live)	Online (live)	5 days	\$3,000

How to register

Register online or scan the code

<https://qimmatrainig.com/courses/variable-frequency-drives-vfd/>

WhatsApp: +971 50 697 0908

Email: training@qimmatrainig.com

