



# Transformers Operation & Maintenance

## Electrical Engineering

QGT-ELE-103 | Foundation | 5 or 10 days | Online, classroom, in-house

### Course overview

Transformers Operation & Maintenance is an introduction that builds a solid working knowledge in Transformers Operation & Maintenance. 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 Transformers Operation & Maintenance
- 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 Transformers Operation & Maintenance 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     |
|----------------------|-----------------|---------------|----------|---------|
| 12–16 Jul 2027       | Cape Town       | Classroom     | 5 days   | \$5,500 |
| 26 Jul – 6 Aug 2027  | Johannesburg    | Classroom     | 10 days  | \$9,900 |
| 8–12 Aug 2027        | Doha            | Classroom     | 5 days   | \$5,500 |
| 20 Sep – 1 Oct 2027  | Vienna          | Classroom     | 10 days  | \$9,900 |
| 27 Sep – 1 Oct 2027  | Online (live)   | Online (live) | 5 days   | \$3,000 |
| 10–14 Jan 2028       | Accra           | Classroom     | 5 days   | \$5,500 |
| 13–24 Mar 2028       | Brussels        | Classroom     | 10 days  | \$9,900 |
| 19–23 Mar 2028       | Sharm El Sheikh | Classroom     | 5 days   | \$5,500 |
| 30 Jul – 10 Aug 2028 | Riyadh          | Classroom     | 10 days  | \$9,900 |
| 28 Aug – 1 Sep 2028  | Online (live)   | Online (live) | 5 days   | \$3,000 |
| 6–10 May 2029        | Kuwait City     | Classroom     | 5 days   | \$5,500 |
| 18–29 Jun 2029       | Zurich          | Classroom     | 10 days  | \$9,900 |
| 8–12 Oct 2029        | Bangkok         | Classroom     | 5 days   | \$5,500 |
| 12–23 Nov 2029       | Milan           | Classroom     | 10 days  | \$9,900 |
| 26–30 Nov 2029       | Online (live)   | Online (live) | 5 days   | \$3,000 |
| 21–25 Apr 2030       | Erbil           | Classroom     | 5 days   | \$5,500 |
| 25 Aug – 5 Sep 2030  | Amman           | Classroom     | 10 days  | \$9,900 |
| 20–24 Oct 2030       | Muscat          | Classroom     | 5 days   | \$5,500 |
| 4–15 Nov 2030        | Barcelona       | Classroom     | 10 days  | \$9,900 |
| 11–15 Nov 2030       | Online (live)   | Online (live) | 5 days   | \$3,000 |

## How to register

### Register online or scan the code

<https://qimmatrainig.com/courses/transformers-operation-and-maintenance/>

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