



POWER AND ELECTRICAL TRAINING

Switchgear Life Assessment and Condition Testing

3 day course

Classroom, online or in-house

Course overview

Deciding whether a switchboard has another decade in it, or needs replacing now, is a capital decision usually made on age because nobody has assembled the condition evidence. This course covers assembling it. Delegates work through the degradation mechanisms that actually end switchgear life, the diagnostic tests that reveal each, and the interpretation of results across a population rather than a single panel. Partial discharge measurement, thermographic survey and mechanism timing are covered in depth. The course then moves to the decision itself: building a condition based ranking across a fleet, estimating remaining life with its uncertainty stated, and presenting a replacement case that a capital committee will fund.

What you will learn

- Identify the degradation mechanisms that actually end switchgear life
- Select diagnostic tests that reveal each mechanism
- Measure and interpret partial discharge in service
- Apply thermographic survey and mechanism timing to condition assessment
- Interpret results across a population rather than a single unit
- Estimate remaining life and state the uncertainty honestly
- Build a replacement case a capital committee will fund

Who should attend

- Asset managers and asset strategy engineers
- Electrical engineers in utilities and heavy industry
- Condition monitoring and testing specialists
- Maintenance managers
- Capital planning staff in networks and plants

Course outline

- 01 What actually ends the life of switchgear
- 02 Diagnostic test selection against mechanism
- 03 Partial discharge measurement in service
- 04 Thermographic survey and interpretation
- 05 Mechanism timing and travel analysis
- 06 Population level interpretation and ranking
- 07 Remaining life estimation and its uncertainty
- 08 Presenting a replacement case

Upcoming dates

Dates	Venue	Format	Fee per delegate
21 to 23 September 2026	Kigali, Rwanda	Classroom	USD 995
4 to 6 November 2026	Online	Online	R6,500
9 to 11 November 2026	Lusaka, Zambia	Classroom	USD 995
11 to 13 January 2027	Windhoek, Namibia	Classroom	R14,950



Fees and how to register

This 3 day course is **R6,500** per delegate online, **R14,950** in the classroom in South Africa, Botswana, Namibia, Lesotho and Eswatini, and **USD 995** in the classroom elsewhere in Africa. In-house training is quotation on request. Book 2 or more delegates on this course and save 10%.

To register or request an in-house proposal, visit www.afrisciencegroup.com, email info@afriscience.co.za, or WhatsApp us on **+27 63 479 1136**.

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