



POWER AND ELECTRICAL TRAINING

Electrical Maintenance Management and Failure Analysis

5 day course

Classroom, online or in-house

Course overview

Electrical maintenance is frequently run to a schedule inherited from a manufacturer's manual, on equipment operating under conditions the manufacturer never assumed. This course covers running it on evidence instead. Delegates work through building an asset register with criticality assessment, selecting a maintenance strategy per asset from run to failure through to condition based, and constructing the inspection and testing programme that follows. Failure analysis is the second half: establishing what actually failed and why, distinguishing a component failure from a system cause, and using failure data to change the strategy. The course closes on measuring maintenance performance and on justifying the budget in terms of avoided loss.

What you will learn

- Build an asset register with a defensible criticality assessment
- Select a maintenance strategy per asset rather than per manual
- Construct an inspection and testing programme from that strategy
- Analyse a failure to establish what failed and why
- Distinguish a component failure from a system level cause
- Use failure data to revise the maintenance strategy
- Measure maintenance performance and justify the budget in avoided loss

Who should attend

- Electrical maintenance managers and supervisors
- Reliability and asset engineers
- Plant and facilities engineers
- Maintenance planners
- Technical managers accountable for electrical availability

Course outline

- 01 Why inherited schedules fit the wrong conditions
- 02 Asset register and criticality assessment
- 03 Maintenance strategy selection per asset
- 04 Inspection and testing programme design
- 05 Failure analysis method and evidence
- 06 Component failure against system cause
- 07 Using failure data to revise strategy
- 08 Performance measurement and budget justification

Upcoming dates

Dates	Venue	Format	Fee per delegate
28 September to 2 October 2026	Port Louis, Mauritius	Classroom	USD 1,325
2 to 6 November 2026	Windhoek, Namibia	Classroom	R19,950
9 to 13 November 2026	Pretoria, South Africa	Classroom	R19,950
16 to 20 November 2026	Online	Online	R8,500



Fees and how to register

This 5 day course is **R8,500** per delegate online, **R19,950** in the classroom in South Africa, Botswana, Namibia, Lesotho and Eswatini, and **USD 1,325** 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@afri-science.co.za, or WhatsApp us on **+27 63 479 1136**.

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