



MAINTENANCE MANAGEMENT TRAINING

Root Cause Failure Analysis for Maintenance Teams

3 day course

Classroom, online or in-house

Course overview

The same equipment fails the same way repeatedly because each event is closed as a repair, and the question asked is what broke rather than why it broke again. This course changes the question. Delegates work through evidence preservation at the point of failure, which is where most investigations are lost before they start, failure data collection including the parts, conditions and history that must be captured before anything is cleaned up. Analysis techniques follow: the logic tree, five whys and their limits, and physical, human and latent cause layers. Component failure evidence is read directly, since a bearing or a shaft usually shows what happened to it. Corrective action is covered, including verifying that a fix worked. The course closes on which failures deserve an investigation and on the recurrence data that identifies them.

What you will learn

- Preserve evidence at the point of failure before anything is cleaned
- Collect the parts, conditions and history an investigation needs
- Build a logic tree and recognise where five whys stops working
- Separate physical, human and latent causes
- Read failure evidence on a component to establish what happened
- Define corrective action and verify that it worked
- Select which failures justify an investigation using recurrence data

Who should attend

- Maintenance and reliability engineers
- Maintenance supervisors and team leaders
- Quality and continuous improvement professionals
- Production engineers involved in equipment troubleshooting
- Safety professionals investigating equipment related incidents

Course outline

- 01 Closed as a repair, repeated next quarter
- 02 Evidence preservation at the failure
- 03 Data, parts and conditions to capture
- 04 Logic trees
- 05 Five whys and its limits
- 06 Physical, human and latent causes
- 07 Reading component failure evidence
- 08 Corrective action, verification and selecting failures to investigate

Upcoming dates

Dates	Venue	Format	Fee per delegate
5 to 7 October 2026	Lagos, Nigeria	Classroom	USD 995
11 to 13 November 2026	Kampala, Uganda	Classroom	USD 995
2 to 4 December 2026	Johannesburg, South Africa	Classroom	R14,950
17 to 19 February 2027	Online	Online	R6,500



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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