



MAINTENANCE MANAGEMENT TRAINING

Risk Based Inspection Planning

3 day course

Classroom, online or in-house

Course overview

Inspecting everything on a fixed interval spends most of the budget on equipment that will not fail and still misses the item that does. Risk based inspection redistributes that effort. This course covers the method. Delegates work through equipment screening and the identification of damage mechanisms by service, likelihood assessment from degradation rate and inspection history, and consequence assessment across safety, environmental and production loss. Risk ranking and the inspection plan that follows are built rather than described. Inspection effectiveness is covered, since a technique that cannot detect the mechanism does not reduce risk. The course closes on reassessment after inspection and on defending the approach to a regulator or insurer.

What you will learn

- Screen equipment and identify damage mechanisms by service
- Assess likelihood from degradation rate and inspection history
- Assess consequence across safety, environmental and production loss
- Rank risk and build an inspection plan from it
- Judge inspection effectiveness against the mechanism present
- Reassess risk using inspection results
- Defend the approach to a regulator or insurer

Who should attend

- Inspection and integrity engineers
- Maintenance and reliability engineers
- Process engineers with equipment responsibility
- Asset managers planning inspection spend
- Regulators and insurers reviewing inspection regimes

Course outline

- 01 Fixed intervals and misplaced effort
- 02 Equipment screening
- 03 Damage mechanisms by service
- 04 Likelihood assessment
- 05 Consequence assessment
- 06 Risk ranking
- 07 Inspection effectiveness and technique selection
- 08 Reassessment and defending the approach

Upcoming dates

Dates	Venue	Format	Fee per delegate
14 to 16 October 2026	Cape Town, South Africa	Classroom	R14,950
23 to 25 December 2026	Maseru, Lesotho	Classroom	R14,950
28 to 30 December 2026	Johannesburg, South Africa	Classroom	R14,950
1 to 3 March 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**.

AfriScience Group | +27 61 536 6531 | info@afriscience.co.za | Pretoria, Gauteng, South Africa