



MAINTENANCE MANAGEMENT TRAINING

Gas Turbine Mechanical Maintenance

5 day course

Classroom, online or in-house

Course overview

Gas turbine maintenance is planned around hot section life and executed in outage windows where a day lost is expensive and a mistake is more expensive still. This course covers the mechanical work. Delegates cover the maintenance philosophy and interval structure, borescope inspection and what it reveals about hot gas path condition, and combustion inspection, hot gas path inspection and major overhaul scopes. Rotor handling, alignment, clearances and bearing work are covered in practical detail, along with auxiliary systems including lubrication, fuel and starting. The course closes on outage planning, spares strategy for long lead components, and the checks before returning a machine to service.

What you will learn

- Explain maintenance philosophy and interval structure
- Conduct borescope inspection and interpret hot gas path condition
- Describe the scope of combustion, hot gas path and major inspections
- Carry out rotor handling, alignment and clearance work
- Maintain lubrication, fuel and starting auxiliaries
- Plan an outage and manage long lead spares
- Complete the checks before returning a machine to service

Who should attend

- Mechanical maintenance engineers and technicians
- Turbine maintenance supervisors
- Outage and turnaround planners
- Reliability engineers in generation
- Contractors performing turbine maintenance

Course outline

- 01 Maintenance philosophy and intervals
- 02 Borescope inspection and interpretation
- 03 Combustion inspection scope
- 04 Hot gas path inspection scope
- 05 Major overhaul and rotor work
- 06 Alignment, clearances and bearings
- 07 Lubrication, fuel and starting auxiliaries
- 08 Outage planning, spares and return to service

Upcoming dates

Dates	Venue	Format	Fee per delegate
14 to 18 December 2026	Kigali, Rwanda	Classroom	USD 1,325
25 to 29 January 2027	Maputo, Mozambique	Classroom	USD 1,325
22 to 26 February 2027	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@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