



POWER AND ELECTRICAL TRAINING

Thermal Power Plant Troubleshooting

5 day course

Classroom, online or in-house

Course overview

In a thermal plant the symptom and the cause are frequently in different systems, and an operator chasing the symptom loses hours the plant cannot spare. This course builds the cross system diagnostic method. Delegates work through the main systems and their interactions, then through the characteristic problems of each: boiler and combustion, steam and water circuits, turbine and condenser, and the electrical and control systems that tie them together. Vacuum loss, tube leaks, vibration, poor heat rate and repeated trips are each traced from symptom to root cause. The course uses real operating data and closes on preventing recurrence rather than restoring output.

What you will learn

- Map the main plant systems and their interactions
- Trace a symptom across system boundaries to its cause
- Diagnose boiler, combustion and steam circuit problems
- Diagnose turbine, condenser and vacuum problems
- Investigate repeated trips and their common causes
- Use operating data and trends to locate a developing fault
- Address root cause rather than restoring output and moving on

Who should attend

- Power plant operators and shift engineers
- Performance and process engineers in generation
- Maintenance and reliability engineers
- Control and instrumentation staff
- Plant managers and technical supervisors

Course outline

- 01 Plant systems and their interactions
- 02 Boiler and combustion problems
- 03 Steam and water circuit problems
- 04 Turbine and condenser problems
- 05 Vacuum loss and its causes
- 06 Tube leaks and their detection
- 07 Repeated trips and control system causes
- 08 Root cause and preventing recurrence

Upcoming dates

Dates	Venue	Format	Fee per delegate
16 to 20 November 2026	Casablanca, Morocco	Classroom	USD 1,325
14 to 18 December 2026	Pretoria, South Africa	Classroom	R19,950
25 to 29 January 2027	Online	Online	R8,500
22 to 26 March 2027	Lagos, Nigeria	Classroom	USD 1,325



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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