



ENGINEERING AND TECHNICAL TRAINING

Rotating Equipment Alignment and Balancing

5 day course

Classroom, online or in-house

Course overview

Misalignment and imbalance destroy bearings and seals quietly over months, and both are introduced during the maintenance intended to improve reliability. This course covers doing that work correctly. Delegates work through alignment principles and the tolerances that actually matter, soft foot and the base and grouting conditions that make alignment impossible, and alignment technique using dial indicators and laser systems. Thermal growth and running position are covered. Balancing follows: unbalance types, single and two plane balancing, and field balancing technique. Coupling selection and installation are addressed. The course closes on verifying results through vibration and on the record that lets the next person work from a known baseline.

What you will learn

- Apply alignment principles and realistic tolerances
- Identify and correct soft foot, base and grouting problems
- Align using dial indicator and laser methods
- Account for thermal growth and running position
- Diagnose unbalance and perform single and two plane balancing
- Balance in the field and verify by vibration measurement
- Record results so the next person starts from a known baseline

Who should attend

- Millwrights, fitters and mechanical technicians
- Maintenance and reliability engineers
- Condition monitoring practitioners
- Maintenance supervisors and planners
- Commissioning engineers

Course outline

- 01 Damage introduced by maintenance
- 02 Alignment principles and tolerances
- 03 Soft foot, bases and grouting
- 04 Dial indicator technique
- 05 Laser alignment and thermal growth
- 06 Unbalance types and causes
- 07 Single and two plane balancing
- 08 Field balancing, coupling installation and verification

Upcoming dates

Dates	Venue	Format	Fee per delegate
19 to 23 October 2026	Online	Online	R8,500
26 to 30 October 2026	Nairobi, Kenya	Classroom	USD 1,325
23 to 27 November 2026	Dar es Salaam, Tanzania	Classroom	USD 1,325
7 to 11 December 2026	Cape Town, South Africa	Classroom	R19,950



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**.

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