



ENGINEERING AND TECHNICAL TRAINING

Engineering Drawing and Geometric Tolerancing

5 day course

Classroom, online or in-house

Course overview

A drawing is a contract between design, manufacture and inspection, and an ambiguous one is settled by whoever makes the part rather than by whoever specified it. This course covers reading and producing unambiguous drawings. Delegates work through projection conventions, views and sections, dimensioning practice and the difference between a dimension that controls function and one that merely records geometry. Tolerancing follows: limits, fits and the accumulation that ruins an assembly. Geometric tolerancing is taught properly, including datums, feature control frames and the symbols in common use. Surface texture and welding symbols are covered. The course closes on drawing interpretation for inspection and on revision control.

What you will learn

- Read projection conventions, views and sections confidently
- Dimension to control function rather than to record geometry
- Apply limits and fits and control tolerance accumulation
- Interpret datums and feature control frames
- Use geometric tolerancing symbols correctly
- Read surface texture and welding symbols
- Interpret a drawing for inspection and manage revisions

Who should attend

- Design draughtspersons and engineers
- Machinists, fabricators and workshop staff
- Quality and inspection personnel
- Maintenance staff ordering replacement parts
- Procurement staff buying to a drawing

Course outline

- 01 A drawing as a contract
- 02 Projection, views and sections
- 03 Dimensioning practice
- 04 Limits, fits and tolerance accumulation
- 05 Datums and feature control frames
- 06 Geometric tolerancing symbols
- 07 Surface texture and welding symbols
- 08 Interpretation for inspection and revision control

Upcoming dates

Dates	Venue	Format	Fee per delegate
21 to 25 September 2026	Online	Online	R8,500
21 to 25 December 2026	Cape Town, South Africa	Classroom	R19,950
11 to 15 January 2027	Windhoek, Namibia	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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