



MANUFACTURING AND PRODUCTION

Spinning Technology and Yarn Quality

5 day course

Classroom, online or in-house

Course overview

Yarn faults are expensive in a way few other manufacturing defects are, because a single weak place stops a weaving machine hours later and the cost is counted in downtime rather than in wasted fibre. This course works back from that. Delegates work through fibre properties and the cotton parameters that determine what a mill can spin, including staple length, micronaire, strength and trash content. Bale laydown and mixing follow, since consistency between laydowns is what keeps yarn uniform. Blowroom, carding and the cleaning efficiency each stage contributes are covered. Drawing, combing and roving are addressed, with the evenness they establish. Ring spinning is covered in operational detail alongside rotor and air jet alternatives. Yarn testing follows: count, twist, strength, evenness and imperfections, and what each result implies for the next process. The course closes on winding, clearing and diagnosing a fault back to the machine that caused it.

What you will learn

- Assess fibre parameters against what the mill can spin
- Plan bale laydown and mixing for consistency
- Operate blowroom and carding for effective cleaning
- Control evenness through drawing, combing and roving
- Compare ring, rotor and air jet spinning on product and cost
- Interpret count, twist, strength, evenness and imperfection results
- Trace a yarn fault back to the machine that caused it

Who should attend

- Spinning mill supervisors and shift managers
- Textile quality control staff
- Production managers in yarn manufacturing
- Maintenance staff supporting spinning machinery
- Technicians entering the spinning industry

Course outline

- 01 A fault that stops a loom hours later
- 02 Fibre properties and spinnability
- 03 Bale laydown and mixing consistency
- 04 Blowroom and carding
- 05 Drawing, combing and roving
- 06 Ring, rotor and air jet spinning
- 07 Yarn testing and what results imply
- 08 Winding, clearing and fault tracing

Upcoming dates



Dates	Venue	Format	Fee per delegate
21 to 25 December 2026	Lagos, Nigeria	Classroom	USD 1,325
4 to 8 January 2027	Cape Town, South Africa	Classroom	R19,950
11 to 15 January 2027	Online	Online	R8,500
1 to 5 March 2027	Pretoria, 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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