



MANUFACTURING AND PRODUCTION

Grain Milling and Cereal Processing

5 day course

Classroom, online or in-house

Course overview

A mill is judged on extraction rate and flour specification, and both are set by decisions made in the grain intake and the conditioning bin rather than on the roller floor. This course starts where the grain does. Delegates work through grain receiving, sampling and the quality parameters that determine what a consignment can produce, including moisture, hectolitre mass, screenings and falling number. Cleaning and the separation principles behind each machine follow. Conditioning and tempering are covered, since water addition and rest time govern how the endosperm releases. The milling diagram is worked through: break rolls, reduction rolls, sifters and purifiers, and what each stream contributes. Extraction, ash and flour specification are addressed. Fortification and additive dosing follow. Storage, infestation control and fumigation are covered. The course closes on maize and other cereals, on mill balance and on troubleshooting a specification failure.

What you will learn

- Sample and assess grain against the parameters that decide output
- Clean grain using the correct separation principle for each contaminant
- Condition and temper grain to release the endosperm
- Follow a milling diagram through break, reduction, sifting and purifying
- Control extraction rate, ash and flour specification
- Dose fortification and additives accurately
- Manage storage, infestation and troubleshoot a specification failure

Who should attend

- Millers and mill shift supervisors
- Quality controllers at flour and maize mills
- Production and plant managers in cereal processing
- Grain intake and silo staff
- Technicians moving into milling roles

Course outline

- 01 Decided at intake, not on the roller floor
- 02 Grain receiving, sampling and quality parameters
- 03 Cleaning and separation principles
- 04 Conditioning and tempering
- 05 Break and reduction rolls
- 06 Sifting, purifying and stream contribution
- 07 Extraction, ash and specification
- 08 Fortification, storage, infestation and troubleshooting

Upcoming dates



Dates	Venue	Format	Fee per delegate
19 to 23 October 2026	Nairobi, Kenya	Classroom	USD 1,325
28 December 2026 to 1 January 2027	Casablanca, Morocco	Classroom	USD 1,325
4 to 8 January 2027	Port Louis, Mauritius	Classroom	USD 1,325
8 to 12 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