



MANUFACTURING AND PRODUCTION

Sugar Milling and Refinery Operations

5 day course

Classroom, online or in-house

Course overview

A sugar factory runs a fixed season against cane that starts deteriorating the moment it is cut, so recovery is lost to delays and to sucrose that never reaches the pan floor. This course follows the losses. Delegates work through cane quality, burn to crush delay and the payment systems that reward it. Cane preparation and milling follow, including imbibition and the extraction the mill tandem achieves. Diffusion is covered as the alternative. Juice clarification, liming and the settling that determines mud handling are addressed. Evaporation and the multiple effect station follow, including scaling and cleaning cycles. Crystallisation is covered in operational detail: massecuite boiling, seeding, strike control and centrifugal separation. Refining follows for white sugar production. Molasses, bagasse and cogeneration are addressed as revenue rather than waste. The course closes on the overall recovery account and on season end maintenance.

What you will learn

- Relate cane quality and burn to crush delay to recovery
- Operate cane preparation and a mill tandem with good extraction
- Compare diffusion with milling as an extraction route
- Clarify juice and manage mud handling
- Run a multiple effect evaporator through scaling and cleaning cycles
- Control massecuite boiling, seeding and centrifugal separation
- Account for overall recovery and use molasses, bagasse and cogeneration

Who should attend

- Sugar factory operators and shift chemists
- Pan floor and boiling house staff
- Process engineers at sugar mills and refineries
- Laboratory staff supporting sugar production
- Production managers in the sugar industry

Course outline

- 01 A fixed season and deteriorating cane
- 02 Cane quality and burn to crush delay
- 03 Preparation, milling and imbibition
- 04 Diffusion as an alternative
- 05 Clarification, liming and mud handling
- 06 Evaporation, scaling and cleaning cycles
- 07 Massecuite boiling, seeding and centrifugals
- 08 Refining, by products, recovery and season end

Upcoming dates



Dates	Venue	Format	Fee per delegate
28 September to 2 October 2026	Gaborone, Botswana	Classroom	R19,950
16 to 20 November 2026	Cape Town, South Africa	Classroom	R19,950
23 to 27 November 2026	Online	Online	R8,500
4 to 8 January 2027	Lusaka, Zambia	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@afriScience.co.za, or WhatsApp us on **+27 63 479 1136**.

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