



PROCESS AND CHEMICAL ENGINEERING

Sulphuric Acid Plant Operations

5 day course

Classroom, online or in-house

Course overview

Sulphuric acid plants sit alongside smelters and fertiliser works producing the highest volume industrial chemical there is, and they run hot, corrosive and continuously, with emissions limits that leave little operating margin. This course covers running one. Delegates work through sulphur burning and metallurgical gas feed and their differences, gas cleaning and drying, and conversion including catalyst behaviour and the interpass absorption that raises conversion efficiency. Absorption and acid circulation are covered, along with the heat recovery that dominates plant economics. Materials selection and corrosion in acid service receive full attention. Emissions and the stack limit are addressed. The course closes on start up, shutdown and the safety of concentrated acid handling.

What you will learn

- Compare sulphur burning and metallurgical gas feed operation
- Operate gas cleaning and drying to protect the catalyst
- Manage conversion, catalyst activity and interpass absorption
- Run absorption and acid circulation within materials limits
- Optimise heat recovery and steam export
- Select materials and control corrosion in acid service
- Meet emission limits and handle concentrated acid safely

Who should attend

- Acid plant process engineers and operators
- Smelter and fertiliser plant technical staff
- Maintenance and corrosion engineers
- Environmental officers managing emissions
- Graduate engineers entering the industry

Course outline

- 01 Hot, corrosive, continuous and closely limited
- 02 Sulphur burning and metallurgical gas feed
- 03 Gas cleaning and drying
- 04 Conversion and catalyst behaviour
- 05 Interpass absorption
- 06 Absorption and acid circulation
- 07 Heat recovery and steam export
- 08 Materials, emissions, start up and acid safety

Upcoming dates

Dates	Venue	Format	Fee per delegate
23 to 27 November 2026	Kigali, Rwanda	Classroom	USD 1,325
30 November to 4 December 2026	Cape Town, South Africa	Classroom	R19,950
14 to 18 December 2026	Nairobi, Kenya	Classroom	USD 1,325
15 to 19 February 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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