



MINING AND MINERALS TRAINING

Acid Mine Drainage and Mine Water Quality

3 day course

Classroom, online or in-house

Course overview

Acid drainage begins while a mine is producing and continues long after it closes, which makes it the environmental liability most likely to outlive the company that created it. This course covers predicting and managing it. Delegates work through the geochemistry of sulphide oxidation, static and kinetic testing to predict acid generating potential, and source control through waste characterisation and selective placement. Treatment options are compared honestly, from lime neutralisation through passive wetland systems to membrane processes, with their real cost and lifespan. Monitoring networks and reporting follow. The course closes on closure liability, financial provision and the long term custodianship question.

What you will learn

- Explain the geochemistry of sulphide oxidation and acid generation
- Apply static and kinetic testing to predict acid generating potential
- Control the source through waste characterisation and selective placement
- Compare active and passive treatment options on cost and lifespan
- Design a monitoring network and report against it
- Quantify closure liability and financial provision
- Address long term custodianship after the operation ends

Who should attend

- Environmental managers and officers on mines
- Geochemists and hydrogeologists
- Mine planning and waste management staff
- Closure and rehabilitation practitioners
- Regulators and consultants advising on mine water

Course outline

- 01 A liability that outlives the operation
- 02 Geochemistry of sulphide oxidation
- 03 Static and kinetic prediction testing
- 04 Waste characterisation and selective placement
- 05 Active treatment and lime neutralisation
- 06 Passive systems and their real performance
- 07 Monitoring networks and reporting
- 08 Closure liability, provision and custodianship

Upcoming dates

Dates	Venue	Format	Fee per delegate
18 to 20 November 2026	Maseru, Lesotho	Classroom	R14,950
25 to 27 November 2026	Online	Online	R6,500
7 to 9 December 2026	Pretoria, South Africa	Classroom	R14,950
14 to 16 December 2026	Cape Town, South Africa	Classroom	R14,950



Fees and how to register

This 3 day course is **R6,500** per delegate online, **R14,950** in the classroom in South Africa, Botswana, Namibia, Lesotho and Eswatini, and **USD 995** 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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