



MINING AND MINERALS TRAINING

Gold Processing: Leaching, Adsorption and Elution

5 day course

Classroom, online or in-house

Course overview

Gold recovery turns on cyanide chemistry, carbon behaviour and a security regime around a product small enough to conceal, and losses can be metallurgical or they can be theft. This course covers the whole plant. Delegates work through ore amenability and the pretreatment that refractory ores require, leaching chemistry including cyanide, oxygen and lime addition, and the carbon in pulp and carbon in leach circuits. Elution, electrowinning and smelting follow. Carbon management, fouling and regeneration are covered practically. Cyanide handling, detoxification and the international code are addressed. The course closes on metallurgical accounting, security and reconciling gold called for against gold produced.

What you will learn

- Assess ore amenability and specify pretreatment for refractory ores
- Control leaching chemistry including cyanide, oxygen and lime
- Operate carbon in pulp and carbon in leach circuits
- Run elution, electrowinning and smelting
- Manage carbon fouling, regeneration and inventory
- Handle and detoxify cyanide to the international code
- Reconcile metallurgical accounting and maintain gold room security

Who should attend

- Gold plant metallurgists and process engineers
- Plant operators and shift supervisors
- Laboratory and metallurgical accounting staff
- Safety and environmental officers on gold plants
- Security managers responsible for gold rooms

Course outline

- 01 Losses that are metallurgical and losses that are theft
- 02 Ore amenability and refractory pretreatment
- 03 Leaching chemistry and control
- 04 Carbon in pulp and carbon in leach
- 05 Elution and electrowinning
- 06 Smelting and the gold room
- 07 Carbon management, fouling and regeneration
- 08 Cyanide code, detoxification and reconciliation

Upcoming dates

Dates	Venue	Format	Fee per delegate
12 to 16 October 2026	Johannesburg, South Africa	Classroom	R19,950
2 to 6 November 2026	Nairobi, Kenya	Classroom	USD 1,325
15 to 19 March 2027	Kigali, Rwanda	Classroom	USD 1,325
22 to 26 March 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**.

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