



MINING AND MINERALS TRAINING

Exploration Geology and Mineral Resource Estimation

5 day course

Classroom, online or in-house

Course overview

A resource statement is the number every subsequent decision rests on, and it is produced from sparse, uneven and sometimes unreliable sample data. This course covers producing one that will stand up. Delegates work through exploration programme design and target generation, drilling, logging and sampling technique, and the quality assurance and control that makes assay data usable. Geological modelling and domaining follow, then estimation by inverse distance and kriging with the variography behind it. Classification into measured, indicated and inferred is covered against reporting codes. The course closes on reconciliation against production and on the competent person's responsibilities in a public statement.

What you will learn

- Design an exploration programme and generate targets
- Apply sound drilling, logging and sampling technique
- Run quality assurance and control on assay data
- Build a geological model and define estimation domains
- Estimate grade using inverse distance and kriging methods
- Classify a resource against a recognised reporting code
- Reconcile estimates against production and report responsibly

Who should attend

- Exploration and resource geologists
- Mining engineers using resource models
- Laboratory and sampling staff supporting exploration
- Technical services and evaluation staff
- Investors and analysts reading resource statements

Course outline

- 01 What every later decision rests on
- 02 Exploration programme design and targeting
- 03 Drilling, logging and sampling technique
- 04 Quality assurance and control on assays
- 05 Geological modelling and domaining
- 06 Variography and estimation methods
- 07 Classification and reporting codes
- 08 Reconciliation and competent person responsibility

Upcoming dates

Dates	Venue	Format	Fee per delegate
28 September to 2 October 2026	Kigali, Rwanda	Classroom	USD 1,325
9 to 13 November 2026	Johannesburg, South Africa	Classroom	R19,950
16 to 20 November 2026	Dar es Salaam, Tanzania	Classroom	USD 1,325
23 to 27 November 2026	Durban, 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@afri-science.co.za, or WhatsApp us on **+27 63 479 1136**.

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