



MINING AND MINERALS TRAINING

Mine Surveying and Spatial Data

5 day course

Classroom, online or in-house

Course overview

The survey is the measurement everything else on a mine is reconciled against, from volumes moved to grade delivered to the position of a development end. This course covers the practice. Delegates work through control networks and coordinate systems, the instruments in current use including total station, global navigation satellite systems, laser scanning and unmanned aerial survey, and underground survey technique where satellite positioning is unavailable. Volume calculation and its reconciliation against production records are covered in detail. The course closes on the statutory survey obligations most jurisdictions impose, and on managing spatial data so that models, plans and reality remain the same thing.

What you will learn

- Establish and maintain a survey control network and coordinate system
- Select instruments appropriate to the task and its accuracy requirement
- Carry out underground survey without satellite positioning
- Apply laser scanning and unmanned aerial survey to mine measurement
- Calculate volumes and reconcile them against production records
- Meet the statutory survey obligations of the jurisdiction
- Manage spatial data so plans, models and reality stay aligned

Who should attend

- Mine surveyors and survey technicians
- Mining engineers and technical services staff
- Geologists working with spatial data
- Production supervisors using survey output
- Graduates entering a survey role

Course outline

- 01 Control networks and coordinate systems
- 02 Total station and satellite positioning practice
- 03 Underground survey technique
- 04 Laser scanning and unmanned aerial survey
- 05 Volume calculation methods
- 06 Reconciliation against production records
- 07 Statutory survey obligations
- 08 Spatial data management and version discipline

Upcoming dates

Dates	Venue	Format	Fee per delegate
21 to 25 September 2026	Accra, Ghana	Classroom	USD 1,325
28 December 2026 to 1 January 2027	Online	Online	R8,500
25 to 29 January 2027	Johannesburg, South Africa	Classroom	R19,950
8 to 12 March 2027	Cape Town, 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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