



MINING AND MINERALS TRAINING

Shaft Systems, Winders and Vertical Transport

5 day course

Classroom, online or in-house

Course overview

A shaft is the only way people and rock leave a deep mine, which makes the winder the single item of equipment whose failure stops everything and whose malfunction kills. This course covers operating and maintaining that system. Delegates work through shaft layout, equipping and steelwork, winder types and their drive and control systems, and rope selection, care and the statutory examination regime. Braking systems and safety devices are covered in detail, including the interlocks that prevent overwind. Conveyance operation, signalling and man winding procedures follow. The course closes on inspection, condition monitoring and the emergency procedures for a shaft incident.

What you will learn

- Describe shaft layout, equipping and steelwork
- Explain winder types and their drive and control systems
- Select, care for and statutorily examine winding ropes
- Maintain braking systems, safety devices and overwind protection
- Operate conveyances, signalling and man winding procedures
- Run inspection and condition monitoring on shaft systems
- Execute emergency procedures for a shaft incident

Who should attend

- Winding engine drivers and shaft supervisors
- Mechanical and electrical engineers on shaft systems
- Mine engineering and maintenance staff
- Safety officers responsible for vertical transport
- Shaft inspectors and technical auditors

Course outline

- 01 The one system whose failure stops everything
- 02 Shaft layout, equipping and steelwork
- 03 Winder types, drives and controls
- 04 Rope selection, care and statutory examination
- 05 Braking systems and safety devices
- 06 Overwind protection and interlocks
- 07 Conveyances, signalling and man winding
- 08 Inspection, monitoring and emergency response

Upcoming dates

Dates	Venue	Format	Fee per delegate
28 September to 2 October 2026	Addis Ababa, Ethiopia	Classroom	USD 1,325
26 to 30 October 2026	Dar es Salaam, Tanzania	Classroom	USD 1,325
9 to 13 November 2026	Online	Online	R8,500
11 to 15 January 2027	Gaborone, Botswana	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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