



MINING AND MINERALS TRAINING

Dust Control and Occupational Hygiene in Mining

3 day course

Classroom, online or in-house

Course overview

Occupational lung disease is diagnosed decades after the exposure that caused it, which removes the feedback that makes other hazards self correcting and leaves control entirely dependent on measurement. This course provides the measurement and the controls. Delegates work through the agents present on a mine: respirable crystalline silica, coal dust, diesel particulate, welding fume, noise and heat. Health effects and the exposure route for each are covered. Occupational exposure limits and what compliance with one actually means are addressed. Monitoring is covered practically: personal sampling, similar exposure groups, sampling strategy and statistical interpretation, since a single sample proves very little. Control is worked through by hierarchy, covering water suppression, ventilation, enclosure, substitution and, last, respiratory protection with the fit testing it requires. Medical surveillance and its interpretation follow. Records and reporting obligations are addressed. The course closes on building a hygiene programme and on demonstrating control to an inspector.

What you will learn

- Identify the hygiene agents present and their exposure routes
- Apply occupational exposure limits correctly
- Design a sampling strategy using similar exposure groups
- Interpret monitoring results statistically rather than sample by sample
- Control exposure through the hierarchy, with protection last
- Run respiratory protection fit testing
- Use medical surveillance data and demonstrate control to an inspector

Who should attend

- Occupational hygienists and technicians
- Mine health and safety officers
- Ventilation officers
- Occupational health nurses and practitioners
- Managers accountable for health exposure risk

Course outline

- 01 Diagnosed decades after exposure
- 02 Silica, coal dust and diesel particulate
- 03 Fume, noise and heat
- 04 Exposure limits and what compliance means
- 05 Personal sampling and similar exposure groups
- 06 Statistical interpretation of results
- 07 Suppression, ventilation, enclosure and substitution
- 08 Respiratory protection, surveillance, records and inspection

Upcoming dates



Dates	Venue	Format	Fee per delegate
18 to 20 November 2026	Online	Online	R6,500
9 to 11 December 2026	Johannesburg, South Africa	Classroom	R14,950
4 to 6 January 2027	Maseru, Lesotho	Classroom	R14,950
27 to 29 January 2027	Accra, Ghana	Classroom	USD 995

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**.

AfriScience Group | +27 61 536 6531 | info@afriScience.co.za | Pretoria, Gauteng, South Africa