



Environmental Impact of Mining Operations

DURATION

5 days

CONTACT HOURS

30

LEVEL

Intermediate

FEE PER DELEGATE

US\$1,500

The physical impacts of mining, how they are measured, and the controls that genuinely reduce them.

Every mine changes water, air, land and the things living on them. This week works through those impacts mechanism by mechanism rather than as a list of concerns: where acid drainage comes from and what actually prevents it, how dust and blast emissions disperse, what mining does to groundwater, and the controls available for each. Monitoring runs throughout, because an impact nobody measures is one nobody can manage or defend.

Available as classroom, live online, in house.

Who it is for

Environmental managers, officers and consultants, mine planners and engineers, compliance staff, and community liaison officers who have to explain impacts.

What you will be able to do

- Explain the mechanism behind each major mining impact.
- Predict acid rock drainage potential and plan for it early.
- Design monitoring that would detect a problem before a regulator does.
- Select controls proportionate to the actual risk.
- Report impact data honestly to a sceptical audience.

The outline

DAY 1

Water

Acid rock drainage and metal leaching · Groundwater drawdown and contamination · Surface water, sediment and discharge

DAY 2

Air and noise

Dust generation, dispersion and control · Blast fume, gases and combustion sources · Noise and vibration at boundaries

DAY 3

Land and biodiversity

Land disturbance and soil loss · Habitat, species and offsets · Waste rock and tailings footprints

DAY 4

Monitoring

Baseline, and why it is worth the money · Sampling design and quality control · Data management and trending

DAY 5

Control and reporting

Hierarchy of control applied to environment · Cost and effectiveness of common measures · Reporting to regulators and communities

What you leave with

- An impact register with mechanisms identified.
- A monitoring plan with locations, parameters and frequencies.
- A control assessment for the highest ranked impact.

Published dates

DATES	WHERE	FEE
23 to 27 November 2026	Kampala, Uganda	US\$1,500
30 November 2026 to 4 December 2026	Cairo, Egypt	US\$1,500
7 to 11 December 2026	Cape Town, South Africa	R15,000
14 to 18 December 2026	Nairobi, Kenya	US\$1,500

Fees are per delegate and cover travel and accommodation arranged by the delegate. Registration fees are separate.

Register or ask a question

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