



## MINING AND MINERALS TRAINING

# Mine Planning and Production Scheduling

5 day course

Classroom, online or in-house

## Course overview

A mine plan converts a resource in the ground into a sequence of decisions about what to move, when and in what order, and every downstream cost follows from it. This course covers building one. Delegates work through the relationship between resource model and reserve, pit optimisation and the selection of a shell, phase and pushback design, and the strategic, tactical and operational planning horizons and what each is permitted to change. Scheduling covers equipment matching, haulage and cycle time, stockpiling and blending to feed a plant within specification, and the reconciliation between plan and actual that most operations do badly. The course closes on the trade off between grade, tonnage and life of mine.

## What you will learn

- Explain how a resource model becomes a reserve and a mine plan
- Apply pit optimisation and select a shell against economic assumptions
- Design phases and pushbacks that can actually be mined
- Distinguish the strategic, tactical and operational planning horizons
- Schedule production with equipment matching, haulage and cycle time
- Use stockpiling and blending to feed a plant within specification
- Reconcile plan against actual and act on the variance

## Who should attend

- Mine planning engineers and mining engineers
- Production and operations superintendents
- Geologists working with planning teams
- Technical services managers
- Graduate engineers entering a planning role

## Course outline

- 01 From resource model to reserve to plan
- 02 Pit optimisation and shell selection
- 03 Phase and pushback design
- 04 Strategic, tactical and operational horizons
- 05 Equipment matching, haulage and cycle time
- 06 Production scheduling and constraints
- 07 Stockpiling and blending to plant specification
- 08 Reconciliation, variance and the grade against tonnage trade off

## Upcoming dates

| Dates                   | Venue                  | Format    | Fee per delegate |
|-------------------------|------------------------|-----------|------------------|
| 16 to 20 September 2026 | Accra, Ghana           | Classroom | R11,995          |
| 19 to 23 September 2026 | London, United Kingdom | Classroom | R11,995          |
| 21 to 25 September 2026 | Maseru, Lesotho        | Classroom | R11,995          |
| 23 to 27 September 2026 | Mbabane, Eswatini      | Classroom | R11,995          |



## Fees and how to register

Online **from R6,500** per delegate, classroom **from R11,995** per delegate, 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](http://www.afrisciencegroup.com), email [info@afriScience.co.za](mailto:info@afriScience.co.za), or WhatsApp us on **+27 63 479 1136**.

AfriScience Group | +27 61 536 6531 | [info@afriScience.co.za](mailto:info@afriScience.co.za) | Pretoria, Gauteng, South Africa