



## MINING AND MINERALS TRAINING

# Mine Dewatering and Water Management

3 day course

Classroom, online or in-house

## Course overview

Water reaches every working place in a mine, and a dewatering system that falls behind floods the lowest and usually the most valuable ground. This course covers keeping ahead of it. Delegates work through hydrogeology and inflow prediction, the pumping systems used in deep and open pit operations, and settler, dam and column design. Pump selection, staging and the energy cost of lifting water are covered, since dewatering is often the largest single power consumer. Water balance and reuse are addressed, along with the storm and flood events that overwhelm a system designed for average conditions. The course closes on discharge quality and regulatory obligations.

## What you will learn

- Predict inflow from hydrogeological data
- Design and operate pumping systems for deep and open pit mines
- Specify settlers, dams and column arrangements
- Select and stage pumps and control the energy cost of lifting water
- Construct a mine water balance and identify reuse opportunities
- Plan for storm and flood events beyond design conditions
- Meet discharge quality and regulatory obligations

## Who should attend

- Mine engineering and services staff
- Hydrogeologists and environmental engineers
- Pump maintenance and mechanical staff
- Energy managers on mining operations
- Environmental officers responsible for discharge

## Course outline

- 01 Water reaches every working place
- 02 Hydrogeology and inflow prediction
- 03 Pumping systems in deep and open pit mines
- 04 Settlers, dams and columns
- 05 Pump selection, staging and energy cost
- 06 Water balance and reuse
- 07 Storm and flood events
- 08 Discharge quality and regulatory obligations

## Upcoming dates

| Dates                | Venue                | Format    | Fee per delegate |
|----------------------|----------------------|-----------|------------------|
| 2 to 4 November 2026 | Lusaka, Zambia       | Classroom | USD 995          |
| 2 to 4 December 2026 | Online               | Online    | R6,500           |
| 7 to 9 December 2026 | Mbabane, Eswatini    | Classroom | R14,950          |
| 22 to 24 March 2027  | Durban, South Africa | Classroom | R14,950          |



## 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](http://www.afrisciencegroup.com), email [info@afriscience.co.za](mailto:info@afriscience.co.za), or WhatsApp us on **+27 63 479 1136**.

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