



## MINING AND MINERALS TRAINING

# Platinum Group Metals Processing

5 day course

Classroom, online or in-house

## Course overview

Platinum group metals occur at a few grams per tonne alongside base metals and are recovered through one of the longest processing chains in the industry, where a percentage point lost at any step is never recovered. This course follows that chain. Delegates work through ore mineralogy and the association of platinum group elements with base metal sulphides, milling and flotation to a concentrate, and smelting including the furnace conditions and the chromite problem. Base metal refining and the removal of nickel, copper and cobalt follow. Precious metal refining and the separation of the individual platinum group elements are covered. The course closes on accounting, security and pipeline lock up across a long chain.

## What you will learn

- Describe ore mineralogy and platinum group element associations
- Operate milling and flotation to produce a saleable concentrate
- Manage smelting conditions and the chromite constraint
- Follow base metal refining and impurity removal
- Explain precious metal refining and element separation
- Account for metal across a long processing pipeline
- Manage lock up, security and reconciliation

## Who should attend

- Metallurgists and process engineers on platinum operations
- Concentrator and smelter operators and supervisors
- Laboratory and metal accounting staff
- Graduate metallurgists entering the sector
- Technical managers overseeing processing

## Course outline

- 01 Grams per tonne through a very long chain
- 02 Ore mineralogy and element association
- 03 Milling and liberation
- 04 Flotation to concentrate
- 05 Smelting and the chromite problem
- 06 Converting and base metal refining
- 07 Precious metal refining and separation
- 08 Pipeline lock up, accounting and security

## Upcoming dates

| Dates                  | Venue                  | Format    | Fee per delegate |
|------------------------|------------------------|-----------|------------------|
| 5 to 9 October 2026    | Pretoria, South Africa | Classroom | R19,950          |
| 12 to 16 October 2026  | Mbabane, Eswatini      | Classroom | R19,950          |
| 16 to 20 November 2026 | Online                 | Online    | R8,500           |
| 14 to 18 December 2026 | Durban, South Africa   | 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](http://www.afrisciencegroup.com), email [info@afiscience.co.za](mailto:info@afiscience.co.za), or WhatsApp us on **+27 63 479 1136**.

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