



MINING & MINERALS EXPLORATION TECHNOLOGY (Sedimentary Geology)

DURATION

5 days

CONTACT HOURS

30

LEVEL

Intermediate

FEE PER DELEGATE

R15,000

Sedimentary systems and basin analysis, and the deposits that sit within them.

A large share of the world's mineral and energy resources sits in sedimentary rocks, and finding them is a matter of understanding the environment that laid them down. This module covers sediment production and transport, facies and depositional environments, stratigraphy and correlation, and basin analysis. The deposit session covers placers, sediment hosted base metals, iron and manganese, phosphate, coal and evaporites, each tied back to the setting that produced it.

Available as classroom, live online, in house.

Who it is for

Exploration geologists working sedimentary terrain, coal and industrial minerals geologists, resource geologists, and geoscience students.

What you will be able to do

- Describe sediment production, transport and deposition.
- Identify depositional environments from facies associations.
- Apply stratigraphic principles and correlate sections.
- Interpret a basin's fill and history.
- Relate sediment hosted deposit styles to their settings.

The outline

DAY 1

Sediments

Weathering, provenance and transport · Texture, sorting and maturity · Diagenesis and compaction

DAY 2

Environments

Fluvial, deltaic, shallow and deep marine · Aeolian, lacustrine and glacial · Facies models, and their limits

DAY 3

Stratigraphy

Litho, bio and chronostratigraphy · Sequence stratigraphy in outline · Correlation, and the errors it invites

DAY 4

Basins

Basin types and subsidence · Fill history and architecture · Burial and thermal history

DAY 5

Deposits

Placers and heavy mineral sands · Sediment hosted copper, lead and zinc · Iron, manganese, phosphate and evaporites · Coal measures

What you leave with

- A logged section with a facies interpretation.
- A correlation panel across several sections.
- A prospectivity note for one basin.

Published dates

DATES	WHERE	FEE
23 to 27 November 2026	Maseru, Lesotho	R15,000
30 November 2026 to 4 December 2026	Gaborone, Botswana	R15,000
7 to 11 December 2026	Nairobi, Kenya	US\$1,500
14 to 18 December 2026	Dubai, United Arab Emirates	US\$1,500

Fees are per delegate and cover all course materials. Registration fees are arranged by the delegate. Reg

Register or ask a question

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