



PETROLEUM GEOSCIENCE AND PETROPHYSICS

Sedimentology and Reservoir Depositional Environments

5 day course

Classroom, online or in-house

Course overview

Two wells a kilometre apart can find entirely different reservoir quality because their sand bodies were laid down by different processes, a meandering river channel in one case and a crevasse splay in the other. Predicting that variation begins with reading the depositional environment correctly. Delegates work through grain size, sorting, sedimentary structures and facies associations, then through each major clastic setting in turn: alluvial fans and fluvial systems, aeolian dunes, deltas, shorefaces, tidal estuaries and deep water turbidite fans. For each, the geometry, connectivity and heterogeneity of sand bodies are tied to core, log motifs and outcrop analogues. Compaction, cementation and their control on porosity close the programme. Delegates leave able to describe core, interpret an environment from logs and predict sand body dimensions for mapping and modelling.

What you will learn

- Describe core in terms of lithology, grain size, structures and facies
- Interpret depositional processes from sedimentary structures
- Recognise characteristic log motifs for major depositional settings
- Predict sand body geometry and connectivity in fluvial, deltaic and deep water systems
- Select outcrop analogues appropriate to a subsurface reservoir
- Evaluate the effect of compaction and cementation on reservoir quality
- Construct facies maps to guide well placement

Who should attend

- Exploration and development geologists
- Geomodellers and reservoir geologists
- Petrophysicists interpreting facies from logs
- Core analysts and laboratory geologists
- Graduate geoscientists early in their careers

Course outline

- 01 Sediment texture and sedimentary structures
- 02 Facies and facies associations
- 03 Alluvial, fluvial and aeolian systems
- 04 Deltaic environments
- 05 Shoreface and tidal settings
- 06 Deep water turbidite systems
- 07 Core description and log motifs
- 08 Diagenesis and reservoir quality
- 09 Facies mapping for development

Upcoming dates



Dates	Venue	Format	Fee per delegate
26 to 30 October 2026	Lusaka, Zambia	Classroom	USD 1,325
2 to 6 November 2026	Maputo, Mozambique	Classroom	USD 1,325
23 to 27 November 2026	Nairobi, Kenya	Classroom	USD 1,325
30 November to 4 December 2026	Gaborone, Botswana	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, email info@afriScience.co.za, or WhatsApp us on **+27 63 479 1136**.

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