



PETROLEUM GEOSCIENCE AND PETROPHYSICS

Sequence Stratigraphy and Biostratigraphy for Exploration

5 day course

Classroom, online or in-house

Course overview

Correlating wells in layer cake fashion across a basin can join sands that were never connected and miss stratigraphic traps altogether. A chronostratigraphic framework, built from relative sea level cycles and dated with fossils, avoids that mistake. Delegates begin with accommodation, sediment supply and base level, then define systems tracts, sequence boundaries and maximum flooding surfaces on seismic, logs and core. Biostratigraphy follows: foraminifera, calcareous nannofossils and palynomorphs as tools for age dating, palaeoenvironment and real time zonation while drilling. The two disciplines are then combined to build correlation panels and to predict lowstand fans, incised valleys and pinch outs. Examples draw on West and East African margin settings. Delegates leave able to build a sequence framework, integrate fossil data and identify stratigraphic play opportunities.

What you will learn

- Explain how accommodation and sediment supply control stratal stacking
- Identify sequence boundaries, flooding surfaces and systems tracts on seismic and logs
- Interpret biostratigraphic zonations from foraminifera, nannofossils and palynology
- Apply fossil assemblages to palaeoenvironmental interpretation
- Build chronostratigraphic well correlation panels
- Predict the location of lowstand reservoirs and stratigraphic traps
- Use biostratigraphy to support casing and coring point decisions

Who should attend

- Exploration geologists
- Seismic interpreters working stratigraphic plays
- Biostratigraphers and palynologists
- Development geologists correlating reservoirs
- Basin analysts at national oil companies

Course outline

- 01 Base level, accommodation and supply
- 02 Sequence boundaries and systems tracts
- 03 Seismic sequence stratigraphy
- 04 Log and core sequence stratigraphy
- 05 Micropalaeontology and nannofossils
- 06 Palynology and palaeoenvironments
- 07 Chronostratigraphic correlation
- 08 Stratigraphic traps and play prediction
- 09 Biostratigraphy while drilling

Upcoming dates

Dates	Venue	Format	Fee per delegate
12 to 16 October 2026	Online	Online	R8,500
8 to 12 February 2027	Pretoria, South Africa	Classroom	R19,950
8 to 12 March 2027	Kampala, Uganda	Classroom	USD 1,325



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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