



PETROLEUM GEOSCIENCE AND PETROPHYSICS

Wellsite and Operations Geology

5 day course

Classroom, online or in-house

Course overview

At three in the morning on a rig, the wellsite geologist may have to call a casing point, stop drilling for a core or warn that the bit has just entered an overpressured shale. Those calls depend on reading cuttings, gas and drilling data quickly. Delegates start with the well proposal and geological prognosis, then cover cuttings sampling, lithology description, hydrocarbon shows, fluorescence and calcimetry. Mud logging gas data, drilling parameters and early warning signs of pressure change follow. Coring operations, logging programme supervision and formation testing are treated from the operations geologist's seat. The programme ends with daily reporting, end of well reports and coordination between office, rig and service contractors. Delegates leave able to supervise geological operations safely and make timely, well documented decisions at the wellsite.

What you will learn

- Prepare a geological prognosis and well proposal
- Describe cuttings lithology and evaluate hydrocarbon shows
- Interpret mud log gas data and gas ratios
- Recognise drilling indicators of pressure change
- Select casing and coring points from real time data
- Supervise wireline logging and formation testing operations
- Compile daily geological reports and the final well report

Who should attend

- Wellsite geologists
- Operations geologists
- Mud loggers moving into geology roles
- Graduate geologists preparing for rig assignments
- Drilling supervisors working with geological staff

Course outline

- 01 Well planning and the geological prognosis
- 02 Cuttings sampling and description
- 03 Shows evaluation and fluorescence
- 04 Mud logging and gas interpretation
- 05 Drilling data and pressure indicators
- 06 Casing and coring point selection
- 07 Coring and logging operations
- 08 Formation testing at the wellsite
- 09 Reporting and communication

Upcoming dates



Dates	Venue	Format	Fee per delegate
2 to 6 November 2026	Cape Town, South Africa	Classroom	R19,950
23 to 27 November 2026	Durban, South Africa	Classroom	R19,950
1 to 5 March 2027	Accra, Ghana	Classroom	USD 1,325
22 to 26 March 2027	Online	Online	R8,500

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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