



PETROLEUM GEOSCIENCE AND PETROPHYSICS

Cased Hole, Cement Evaluation and Production Logging

5 day course

Classroom, online or in-house

Course overview

Once casing is set the questions change: is the cement isolating zones, where is water coming from, and has saturation moved since the well was drilled. Cased hole tools answer them, provided the surveys are run under the right conditions and read with care. Delegates begin with cement bond and variable density logs, then ultrasonic imagers, learning to tell a good bond from microannulus and channelling. Pulsed neutron capture and carbon oxygen logging follow for saturation monitoring behind pipe. Production logging takes the second half: spinners, temperature, fluid density, capacitance and holdup tools, and multiphase flow interpretation in deviated wells. Casing integrity and corrosion logging close the programme. Delegates leave able to specify a cased hole job, interpret the results and recommend remedial work such as cement squeezes or water shut off.

What you will learn

- Interpret cement bond, variable density and ultrasonic logs for zonal isolation
- Distinguish good cement from microannulus and channelled cement
- Apply pulsed neutron and carbon oxygen logs to monitor saturation behind casing
- Interpret spinner, temperature and holdup data in multiphase flow
- Identify water and gas entry points and crossflow between zones
- Evaluate casing corrosion from multifinger caliper and electromagnetic tools
- Recommend remedial actions based on cased hole findings

Who should attend

- Petrophysicists and production petrophysicists
- Production and well integrity engineers
- Reservoir surveillance engineers
- Completion engineers reviewing cement jobs
- Wireline and slickline field engineers

Course outline

- 01 Cement placement and evaluation principles
- 02 Bond logs and ultrasonic imaging
- 03 Pulsed neutron saturation monitoring
- 04 Production logging tools
- 05 Flow regimes and holdup
- 06 Multiphase production log interpretation
- 07 Temperature and noise logging
- 08 Casing integrity logging
- 09 Remedial decisions from cased hole data

Upcoming dates



Dates	Venue	Format	Fee per delegate
2 to 6 November 2026	Cape Town, South Africa	Classroom	R19,950
9 to 13 November 2026	Harare, Zimbabwe	Classroom	USD 1,325
7 to 11 December 2026	Online	Online	R8,500
4 to 8 January 2027	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, email info@afriScience.co.za, or WhatsApp us on **+27 63 479 1136**.

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