



PETROLEUM GEOSCIENCE AND PETROPHYSICS

Core Analysis and Special Core Analysis

5 day course

Classroom, online or in-house

Course overview

Core is the only direct sample of the reservoir most companies ever hold, and it is expensive enough that a badly planned coring run or a poorly preserved barrel wastes a large share of a well budget. Delegates begin with coring objectives, core handling, preservation and plug selection. Routine analysis covers porosity, grain density, permeability and the Klinkenberg correction, plus the pitfalls that make laboratory values differ from in situ ones. Special core analysis follows: wettability, capillary pressure by mercury injection, porous plate and centrifuge, relative permeability by steady and unsteady state methods, and electrical properties for the cementation and saturation exponents. Delegates leave able to design a core programme, audit laboratory reports and pass reliable data to petrophysicists and reservoir engineers.

What you will learn

- Plan coring objectives, core handling and preservation procedures
- Select plug locations and design a routine and special analysis programme
- Interpret routine porosity, permeability and grain density results
- Correct laboratory data for stress, Klinkenberg effect and sample damage
- Evaluate wettability and its effect on displacement
- Interpret capillary pressure and relative permeability measurements
- Derive cementation and saturation exponents from electrical tests
- Audit laboratory reports for quality and consistency

Who should attend

- Petrophysicists
- Reservoir engineers
- Development geologists
- Laboratory managers and core analysts
- Wellsite geologists responsible for core recovery

Course outline

- 01 Coring objectives and methods
- 02 Core handling, preservation and sampling
- 03 Routine core analysis
- 04 Stress and data corrections
- 05 Wettability
- 06 Capillary pressure methods
- 07 Relative permeability
- 08 Electrical properties
- 09 Quality control and data integration

Upcoming dates



Dates	Venue	Format	Fee per delegate
2 to 6 November 2026	Johannesburg, South Africa	Classroom	R19,950
14 to 18 December 2026	Kigali, Rwanda	Classroom	USD 1,325
15 to 19 February 2027	Online	Online	R8,500
1 to 5 March 2027	Accra, Ghana	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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