



PETROLEUM GEOSCIENCE AND PETROPHYSICS

Petroleum Geology for Non Geologists

5 day course

Classroom, online or in-house

Course overview

A commercial manager who cannot follow a geologist's argument about a prospect has no way to challenge the risk that sits behind a drilling budget. This programme gives non specialists that footing. Delegates start with rocks and minerals as an engineer or accountant meets them on a well report, move through how sediments are laid down and buried, and then follow organic matter as it turns into oil and gas. Traps, seals and the meaning of porosity and permeability come next, explained with field photographs, core samples and simple maps. The later sessions translate the vocabulary used in licence documents, well proposals and reserves statements into plain terms. Delegates leave able to read a basic geological cross section, ask sensible questions in technical meetings and judge where uncertainty in a subsurface story really lies.

What you will learn

- Describe the main rock types met in oil and gas wells
- Explain how sediments are deposited, buried and turned into rock
- Outline how organic matter generates oil and gas with heat and time
- Recognise the common trap types and the role of a seal
- Interpret porosity and permeability in plain commercial terms
- Read a simple geological map, cross section and well log display
- Question the main sources of uncertainty in a prospect presentation

Who should attend

- Commercial and business development managers
- Finance, legal and contracts staff in upstream companies
- Government regulators and licensing officers
- Drilling and facilities engineers new to subsurface work
- Administrative and human resources staff supporting technical teams

Course outline

- 01 Why geology decides the value of an oil company
- 02 Minerals, rocks and the rock cycle
- 03 Deposition, burial and lithification
- 04 From organic matter to oil and gas
- 05 Traps, seals and migration paths
- 06 Porosity, permeability and what they mean for flow
- 07 Reading maps, cross sections and well logs
- 08 Geological language in licences and reserves reports
- 09 Judging subsurface uncertainty in business decisions

Upcoming dates



Dates	Venue	Format	Fee per delegate
26 to 30 October 2026	Durban, South Africa	Classroom	R19,950
30 November to 4 December 2026	Maputo, Mozambique	Classroom	USD 1,325
4 to 8 January 2027	Online	Online	R8,500
11 to 15 January 2027	Harare, Zimbabwe	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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