



LABORATORY EXCELLENCE, SAFETY AND ACCREDITATION

Petroleum Laboratory Testing and Analysis

5 day course

Classroom, online or in-house

Course overview

A petroleum laboratory runs standardised tests whose results move money and settle disputes, which makes method fidelity and repeatability more important than analytical elegance. This course covers that work. Delegates cover the physical property tests that define product specification, including density, distillation, flash point, viscosity and pour point, alongside sulphur, water and salt determination. Standard test methods and their prescribed precision are treated as the governing documents they are. Sampling receives detailed attention, since a poorly taken sample invalidates everything downstream. The course closes on correlating laboratory results with refinery operation and on resolving a disputed result.

What you will learn

- Run the physical property tests that define product specification
- Determine sulphur, water and salt content reliably
- Follow standard test methods and their prescribed precision
- Take and handle representative samples
- Assess whether a result falls within method repeatability
- Correlate laboratory results with refinery operating conditions
- Resolve a disputed result between laboratories

Who should attend

- Petroleum laboratory analysts and technicians
- Refinery and terminal quality staff
- Inspection and cargo surveying personnel
- Process engineers using laboratory data
- Laboratory supervisors in oil and gas

Course outline

- 01 What a petroleum laboratory result decides
- 02 Density, distillation and vapour pressure
- 03 Flash point, viscosity and pour point
- 04 Sulphur, water and salt determination
- 05 Standard test methods and prescribed precision
- 06 Sampling and sample handling
- 07 Correlating results with refinery operation
- 08 Disputed results and referee testing

Upcoming dates

Dates	Venue	Format	Fee per delegate
5 to 9 October 2026	Kigali, Rwanda	Classroom	USD 1,325
9 to 13 November 2026	Durban, South Africa	Classroom	R19,950
7 to 11 December 2026	Accra, Ghana	Classroom	USD 1,325
11 to 15 January 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@afri-science.co.za, or WhatsApp us on **+27 63 479 1136**.

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