



OIL, GAS AND PETROCHEMICALS TRAINING

Methane Emissions Measurement and Reduction

5 day course

Classroom, online or in-house

Course overview

A handful of large leaks often accounts for most of a site's methane, and inventories built on generic emission factors regularly miss them. The course starts with where methane actually escapes: tank vents, glycol dehydrators, pneumatic controllers, compressor seals and rod packing, incomplete flare combustion and fugitive leaks. Delegates then practise detection and quantification with optical gas imaging cameras, handheld sniffers, high flow samplers, continuous fixed sensors and aerial and satellite surveys. Designing a leak detection and repair programme, reconciling source level with site level figures and reporting to OGMP 2.0 levels follow. The last sessions rank abatement options, from replacing pneumatics to vapour recovery, by cost per tonne avoided. Emissions teams leave able to build a measurement based methane programme and cut losses where it counts.

What you will learn

- Identify the main methane sources at production, processing and transmission sites
- Operate optical gas imaging and handheld detection methods
- Quantify leak and vent rates with direct measurement techniques
- Interpret aerial, drone and satellite methane survey results
- Design a leak detection and repair programme with sensible survey frequency
- Reconcile source level and site level methane estimates
- Apply OGMP 2.0 reporting levels to a company inventory
- Rank abatement options by cost and emissions avoided

Who should attend

- Environmental and emissions engineers
- Facility and operations engineers
- Leak detection technicians and survey contractors
- Sustainability managers in oil and gas companies
- Regulators developing methane rules

Course outline

- 01 Methane sources across the gas chain
- 02 Venting, flaring and combustion slip
- 03 Leak detection technologies
- 04 Direct quantification methods
- 05 Remote sensing from aircraft and satellites
- 06 Leak detection and repair programmes
- 07 Reconciliation and OGMP 2.0 reporting
- 08 Abatement options and their economics

Upcoming dates



Dates	Venue	Format	Fee per delegate
2 to 6 November 2026	Online	Online	R8,500
16 to 20 November 2026	Durban, South Africa	Classroom	R19,950
23 to 27 November 2026	Windhoek, Namibia	Classroom	R19,950
7 to 11 December 2026	Port Louis, Mauritius	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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