



ENGINEERING AND TECHNICAL TRAINING

Gas Processing and LNG Plant Operations

3 day course

Classroom, online or in-house

Course overview

A three day intensive covering the natural gas processing train from wellhead gas through to sales gas specification and LNG export. Delegates work through acid gas removal and sweetening, dehydration and mercury removal, natural gas liquids recovery and fractionation, and the liquefaction cycles behind LNG production. Cryogenic handling receives its own treatment, because the hazards of LNG storage and loading differ from anything else on a gas plant and are unforgiving of assumptions carried over from warmer service. The course closes on assessing plant performance against product specification, and is structured for engineers and operators supporting gas monetisation projects moving from associated gas flaring toward domestic and export processing across East and West Africa.

What you will learn

- Explain the natural gas processing train from wellhead gas to sales gas specification
- Apply acid gas removal and dehydration process principles
- Describe liquefaction cycles and LNG storage and loading operations
- Identify hazards specific to cryogenic LNG handling and storage
- Evaluate gas processing plant performance against product specifications
- Operate utility and refrigerant systems that support the processing train
- Respond to common process upsets across the gas plant

Who should attend

- Process engineers
- Gas plant operators
- LNG terminal staff
- Project engineers on gas monetisation projects
- Technical trainers

Course outline

- 01 Natural gas composition and processing overview
- 02 Acid gas removal and sweetening processes
- 03 Dehydration and mercury removal systems
- 04 Natural gas liquids recovery and fractionation
- 05 Utilities and refrigerant systems
- 06 LNG liquefaction cycles and cryogenic safety
- 07 LNG storage, loading and quality control
- 08 Process upsets, troubleshooting and plant performance

Upcoming dates

Dates	Venue	Format	Fee per delegate
4 to 6 November 2026	Kampala, Uganda	Classroom	USD 995
16 to 18 December 2026	Online	Online	R6,500
15 to 17 February 2027	Harare, Zimbabwe	Classroom	USD 995
10 to 12 March 2027	Johannesburg, South Africa	Classroom	R14,950



Fees and how to register

This 3 day course is **R6,500** per delegate online, **R14,950** in the classroom in South Africa, Botswana, Namibia, Lesotho and Eswatini, and **USD 995** 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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