



EMERGING TECHNOLOGIES TRAINING

Green Hydrogen Production and Applications

5 day course

Classroom, online or in-house

Course overview

Several African countries are being positioned as green hydrogen exporters on the strength of solar and wind resources, and the engineering reality is that hydrogen is difficult to make efficiently, difficult to store and difficult to move. This course covers that reality. Delegates work through electrolysis technologies and their efficiency, water requirements and the desalination often needed to meet them, and the coupling of intermittent renewable supply to an electrolyser that prefers steady operation. Storage, compression and liquefaction are covered with their energy penalties. Ammonia and other carriers follow, since hydrogen is rarely exported as hydrogen. Safety receives full attention. The course closes on offtake, certification and the economics that decide whether a project proceeds.

What you will learn

- Compare electrolysis technologies and their real efficiencies
- Assess water requirements and the treatment needed to meet them
- Couple intermittent renewable supply to electrolyser operation
- Evaluate storage, compression and liquefaction and their energy penalties
- Compare ammonia and other carriers for export
- Control the safety hazards specific to hydrogen service
- Assess offtake, certification and project economics

Who should attend

- Energy and process engineers
- Project developers and technical advisers
- Government energy and industrial policy staff
- Utility and industrial planning staff
- Investors and analysts assessing hydrogen projects

Course outline

- 01 Positioned as exporters, constrained by engineering
- 02 Electrolysis technologies and efficiency
- 03 Water supply and treatment
- 04 Coupling intermittent renewables to electrolysers
- 05 Storage, compression and liquefaction
- 06 Ammonia and other carriers
- 07 Hydrogen safety
- 08 Offtake, certification and project economics

Upcoming dates

Dates	Venue	Format	Fee per delegate
5 to 9 October 2026	Kigali, Rwanda	Classroom	USD 1,325
11 to 15 January 2027	Maputo, Mozambique	Classroom	USD 1,325
25 to 29 January 2027	Online	Online	R8,500
1 to 5 February 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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