



PROCESS AND CHEMICAL ENGINEERING

Industrial Utilities: Steam, Compressed Air and Nitrogen

3 day course

Classroom, online or in-house

Course overview

Utilities are treated as a background service until they fail, at which point they stop the plant, and they consume a large share of site energy while nobody owns the number. This course gives them an owner. Delegates work through steam generation, distribution and the trap and condensate systems that decide efficiency, compressed air generation, drying and distribution including leak cost, and nitrogen supply options. Demand side management is covered, since most utility waste is created by users rather than by the plant. Reliability, redundancy and restart after failure are addressed. The course closes on metering, cost allocation and a utilities improvement programme.

What you will learn

- Operate steam generation and distribution efficiently
- Manage traps, condensate return and flash steam recovery
- Operate compressed air generation, drying and distribution
- Quantify and reduce the cost of air leaks and misuse
- Select and manage nitrogen supply options
- Design redundancy and plan restart after a utility failure
- Meter, allocate cost and run a utilities improvement programme

Who should attend

- Utilities and plant engineers
- Energy managers and engineers
- Maintenance supervisors and technicians
- Operations managers responsible for site cost
- Facilities engineers on industrial sites

Course outline

- 01 Utilities as an unowned cost
- 02 Steam generation and distribution
- 03 Traps, condensate and flash recovery
- 04 Compressed air generation and drying
- 05 Air distribution, leaks and misuse
- 06 Nitrogen supply options
- 07 Reliability, redundancy and restart
- 08 Metering, cost allocation and improvement

Upcoming dates

Dates	Venue	Format	Fee per delegate
14 to 16 October 2026	Online	Online	R6,500
18 to 20 January 2027	Kampala, Uganda	Classroom	USD 995
15 to 17 February 2027	Durban, 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@afiscience.co.za, or WhatsApp us on **+27 63 479 1136**.

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