

**POWER AND ELECTRICAL TRAINING**

Load Shedding, Demand Side Management and Energy Security

3 day course

Classroom, online or in-house

Course overview

Scheduled supply interruption is a normal operating condition across much of this region, and organisations that treat each event as a surprise pay for it in damaged equipment, lost production and fuel bought at the worst moment. This course covers planning for it. Delegates work through the reasons load shedding occurs and how schedules and stages are determined, the load audit that establishes what a site actually needs to keep running, and the essential, non essential and deferrable classification behind any sensible response. Backup generation and its sizing, fuel logistics and maintenance are covered. Uninterruptible supply, storage and solar are compared on cost and role. Demand side management, tariffs and load shifting follow. The course closes on restart sequencing and on the equipment damage that occurs at restoration.

What you will learn

- Explain why load shedding occurs and how stages are determined
- Run a load audit and classify essential and deferrable load
- Size backup generation and plan fuel logistics and maintenance
- Compare uninterruptible supply, storage and solar on cost and role
- Apply demand side management, tariffs and load shifting
- Sequence restart to avoid damage at restoration
- Build a continuity plan around a predictable interruption

Who should attend

- Facilities, plant and electrical engineers
- Energy managers and utilities staff
- Operations managers on interrupted supply
- Finance staff evaluating backup investment
- Municipal and utility distribution personnel

Course outline

- 01** A normal operating condition, not a surprise
- 02** Why load shedding occurs and how stages work
- 03** The load audit
- 04** Essential, non essential and deferrable load
- 05** Backup generation sizing and fuel logistics
- 06** Uninterruptible supply, storage and solar
- 07** Demand side management and tariffs
- 08** Restart sequencing and damage at restoration

Upcoming dates



Dates	Venue	Format	Fee per delegate
28 to 30 December 2026	Pretoria, South Africa	Classroom	R14,950
13 to 15 January 2027	Casablanca, Morocco	Classroom	USD 995
1 to 3 February 2027	Durban, South Africa	Classroom	R14,950
1 to 3 March 2027	Cape Town, 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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