



POWER AND ELECTRICAL TRAINING

Industrial Energy Management and Efficiency Auditing

3 day course

Classroom, online or in-house

Course overview

Energy is usually the largest controllable cost in an industrial operation, and much of it is lost to causes that are well understood. This three day course covers finding and costing them. Delegates work through a structured audit from data collection to reporting, then examine compressed air, steam and thermal systems, and electrical efficiency including power factor correction, for the losses each typically hides. The ISO 50001 approach is applied so that saving becomes a system rather than a one off project. The course spends real time on the financial case, since an efficiency measure that cannot show a payback does not get funded, and closes on energy performance indicators and monitoring and targeting, which is what stops a saving quietly disappearing over the following year.

What you will learn

- Conduct a structured industrial energy audit from data collection to reporting
- Identify energy conservation opportunities across compressed air, steam and electrical systems
- Apply ISO 50001 energy management system principles to an industrial facility
- Calculate the financial payback of proposed energy efficiency measures
- Establish energy performance indicators and monitoring and targeting systems
- Assess motor, pump and fan systems where oversizing carries a continuous cost
- Reduce demand charges through load profiling and tariff analysis

Who should attend

- Energy managers
- Facilities engineers
- Sustainability officers
- Plant managers
- Industrial energy auditors

Course outline

- 01 Principles of industrial energy management
- 02 Energy audit methodology and data collection
- 03 Compressed air, steam and thermal system efficiency
- 04 Motor, pump and fan system efficiency
- 05 Electrical system efficiency and power factor correction
- 06 Load profiling, tariffs and demand charges
- 07 ISO 50001 energy management systems
- 08 Business case development and monitoring and targeting

Upcoming dates

Dates	Venue	Format	Fee per delegate
30 September to 2 October 2026	Johannesburg, South Africa	Classroom	R14,950
23 to 25 November 2026	Accra, Ghana	Classroom	USD 995
16 to 18 December 2026	Kigali, Rwanda	Classroom	USD 995
20 to 22 January 2027	Online	Online	R6,500



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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