

# Introduction to Energy Auditing and Assessment

## COURSE DESCRIPTION

This short course aims to equip participants with adequate knowledge to identify, quantify and recommend energy-saving opportunities where consumption can be reduced or optimized in both commercial and industrial facilities. Whether building new knowledge or validating experience, participants will learn both theoretical concepts and demonstrated best practices of energy auditing and assessments.

By the end of the training course, participants will be able to conduct energy audits with confidence in industrial and commercial facilities, and understand energy use optimization in buildings, plants, and systems. In addition to that, participants will be able to develop business cases for energy management opportunities.

## TARGET AUDIENCE

This short course is suitable for all interested participants from both the industrial, mining, commercial and public sectors including professionals that are involved in undertaking and assessing energy auditing projects such as energy managers, plant managers and supervisors, facilities and building managers, maintenance engineers, process operators, project engineers, energy engineering consultants, ESCOs (Energy Services Companies) engineers etc. It is also ideal for persons that influence the operation of significant energy-consuming equipment, utility management, or energy optimization implementation projects.

## LEARNING OUTCOMES

After attending the course, the participants will be able to demonstrate general understanding of:

- South African context for energy audits
- Basic principles of energy
- Energy audits
- Business case development
- Reporting for implementation

## ADDITIONAL BENEFITS

- Organizational benefits - Upon completion of this course, the organisational impact would be:
  - Improved technical capacity of the workforce on energy systems
  - Improved financial competitiveness and productivity
  - Improved operational management
  - Carbon awareness and reduction
- Personal benefits – On the successful completion of this training course, the delegate will be able to:
  - Understand the basics of energy, efficiency, conversion, and balance
  - Assess and investigate a facility's energy systems operations with confidence
  - Package and recommend identified potential energy savings opportunities

Communicate an identified energy management project in the language of financial decision-makers

## DELIVERY METHOD

A combination of flexible methods will be used to deliver the course including lectures, study groups, assignments, case studies and independent self-study of recommended books and other relevant publications.

## ADMISSION REQUIREMENTS

- Technical degree or related
- Recognition of prior learning will be considered to accept applicants with relevant experience but with matric qualification or its equivalent.

## DURATION

The course will be offered for 4 Saturdays from 8 am to 5 pm. The course can be offered via a flexible delivery system – via hybrid mode/face to face contact in Durban. To provide training for companies/clients outside of Durban, a travelling fee will be negotiated. A DUT certificate of attendance/ competence will be issued at the end of course.

## ENQUIRY CONTACT

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