



# Institute for Capacity Development (ICD)

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## Energy Auditing Training

### Course Objectives

Upon successful completion of this course participants should be able to:

- Determine the primary areas of energy consumption so that recommendations can be made.
- Use Energy Audit as an effective energy management tool.
- Identify and implement the means to achieve energy efficiency and conservation
- Save Energy and extend the lifespan of equipment/systems
- Recommend appropriate measures in energy saving and conservation
- Produce an Energy Audit Report.

### Target Groups

- Plant, facility, and utility engineers
- Energy auditors
- Corporate energy managers
- Energy management personnel

### Course Outline

- General Management Principles and Skills
- Energy Fundamentals
- How Buildings Use Energy
- Details of Energy-Consuming Systems
- What Is an Energy Audit?
- In-House Energy Audit
- Systems Approach to Energy Auditing
- Defining the Energy Audit
- Developing an Audit Plan
- Coordinating With Various Plant Departments
- Defining Audit Resources
- Analysing Energy Consumption and Costs
- Profiling Energy Use Patterns
- Inventory Energy Use
- Instrumentation For Energy Auditing

- Boiler, Hot Water, and Steam Systems
- Energy Estimating Techniques
- Audit Instruments and Measurements
- Cooling Systems
- Identifying Energy Management Opportunities
- Energy Conservation Opportunities: Heating and Cooling
- Automatic Temperature Control
- Energy Reporting
- Action planning

Dates: 04<sup>th</sup> – 15<sup>th</sup> March 2019

Duration: 2 Weeks

Course Costs: US\$3150/delegate

Venue: Pretoria, RSA