

Background

Rising electricity costs and national energy conservation policies by governments have forced all electricity consumers to become more energy efficient. Energy efficiency is therefore not just a matter of operating efficiently; it is also a factor in operating legally.

Energy efficiency results in reduced electricity costs and increased profitability. Attention to energy efficiency often highlights deficiencies in other areas such as maintenance, process yield and quality and so can bring significant additional productivity benefits.

We at Applied Economic Power Solutions believe minimising electrical energy waste means significant cost saving through lower electricity bills, including lower penalties and environmental charges. This means improved profits for your organisation and helping you to price your products and services more competitively. Controlling electricity costs through energy efficiency now will help you to mitigate the impact of increases in energy prices or taxes in the future. Organisations that have not looked seriously at energy efficiency can typically save 20% on their energy consumption, and consequent emissions of greenhouse gases, through no-cost and relatively low-cost measures, yielding significant reductions in their electricity bills.

Workshop Duration

The 2 day workshop costs R5300 and includes the course notes and toolboxes copied onto a memory stick. The date for the workshop is 02-03 July 2009 to be held in Midrand, Johannesburg, South Africa. The workshop will start at 08h30 and end at 16h00 daily.

Electrical Energy Efficiency Workshop

Workshop Description

This two-day workshop is intended to provide the attendees with the skills, knowledge and tools to be able to make their organisation more energy efficient. Participants will learn how to identify energy savings opportunities, to save energy through performing many case studies, learn how to conduct simple energy audits, analyse and interpret electricity bills and recommend solutions which will enhance their decision making ability. Participants must bring along a calculator and/or laptop (not compulsory).

Who should attend

Professionals involved or interested in energy management & who want to learn effective and decisive ways to enhance the energy usage of plants, buildings, mines, factories, etc.

- Energy Managers
- Regulators
- Consumer groups
- Government departments (DME, DPE, etc)
- Students
- Business Executives
- Anyone interested in learning about Energy Efficiency
- Consulting Engineers (Elec., Mech., Ind.)
- Electrical Contractors, Maintenance engineers
- Utility companies

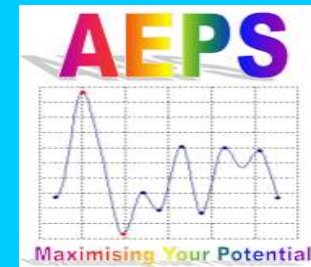
Course Outline

Day 1

1. Energy Management, Energy Conservation Rules, Baseline Determination, Electricity situation in South Africa.
2. Energy Auditing, Practical energy audit example.
3. Energy accounting, understanding tariffs, power factor & load factor. Examples to calculate tariffs and correct power factor.

Day 2

1. Energy efficiency, six sigma tools, example of efficiency improvement.
2. Lighting, energy efficiency measures & calculations.
3. Motors, compressors, pumps, etc. Example calculations & toolbox.
4. Practical Power Saving Measures for HVAC, Process Plants, refrigeration, etc.
5. Financial Evaluation, payback, NPV, etc, example calculations.



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