

Background

Changes in the business environment of the electricity industry has created a need for non-engineers to communicate more frequently and effectively with their technical colleagues. Increasing interest in the electric power industry has led to a broad range of business professionals expressing a need to understand power engineering fundamentals presented in a non-technical manner. In response, **Applied Economic Power Solutions (AEPS)** is pleased to offer a course on Power System Basics targeted at non-technical business professionals.

The course provides a good understanding of the basics of electricity and the fundamentals of power systems.

Course Duration

The course will be presented over a period of 2 days with breaks for lunch and tea. The course fee is R3300 (excl. VAT) and includes the course notes. The date for the course is 10-11 September 2007 to be held in Midrand, Johannesburg, South Africa. The course will start at 08h30 and end at 17h00 daily.



Power System Basics

Course Description

This two-day course is intended to give non-engineering professionals a better understanding of the planning and operation of electric power systems. Basic electrical terminology and concepts are explained in simple to understand terms with regard to design, construction, operations and maintenance of power plants, substations and transmission and distribution lines. Background on Regulatory Policy, Renewable Energy and Electricity Restructuring are also discussed.

Who should attend

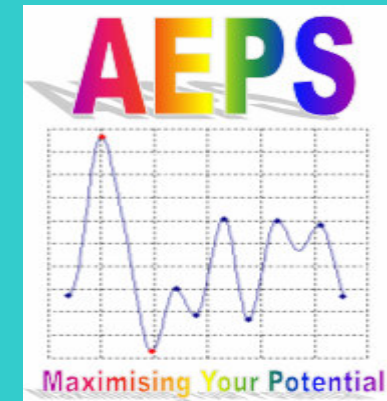
Non-engineering professionals who have an interest in the physical nature, design and operation of electrical power systems.

- Employees of Electricity Utility companies
- Regulators
- Consumer groups
- Government departments (DME, DPE, etc)
- Students
- Business Executives
- Anyone interested in learning about Electric Power Systems

Participants will gain more insight into the concerns of engineers, the demands of regulators and consumer groups and a perspective of how these factors play a major role in the operation of today's electric power systems.

Course Outline

- 1. Fundamentals of Electricity**
Discusses voltage, current, power vs energy, reactive power, power factor, etc.
- 2. Generation and Transmission**
The operation of generation plants, substations and transmission lines are explained.
- 3. Distribution and Consumption**
Power delivery to residential, commercial and industrial customers.
- 4. Power System Operation**
How electric power systems are monitored, controlled and operated.
- 5. Regulatory Policy**
The need for regulatory policy and its impact.
- 6. Markets for Electricity**
Overview of electricity market operation.



Contact Details

Web: www.aeps.co.za
Phone: +27 11 8713076
Fax: +27 11 8723238
Cell: +27 828086514
Email: enquiries@aeps.co.za