

Course Overview:

This highly relevant seminar is intended for electrical engineers and technicians involved in electrical utilities. And those are responsible for general considerations of power control.

The course can be used as an introduction to the field of power utilities and power systems planning and control.

Course Objective:

With the ever increasing demand on electric energy, larger and larger generating units have been installed. All these reasons necessitates a voltage control. The course presents a systematic approach to the voltage control. It first adopts a general approach to the main power system.

Then it explains what is meant by various power systems types. Familiarization with principles of generation, transmission, and distribution methods and design and its associated calculations. The understanding of the principles and techniques of design of substations voltage control is explained.

Course Outline:

1. Transmission and Distribution Planning Process
2. Forecasting T&D Load
3. Substation Siting and System Expansion Planning
4. Distribution System Layout
5. Automated Planning Tools and Methods
6. Automated Transmission Planning
7. Power System Control
8. Voltage control in distribution networks
9. Steady state and Transient stability
10. Stability of loads

Who Should Attend:

1- Electrical Engineers
2- Senior technicians who work in the electrical control and power utilities
3- Technicians who would like to refresh their knowledge
4- Mechanical and chemical Engineers who are interested in control subjects.

Training Language:

EN / AR

Training Methodology:

- Presentation & Slides
- Audio Visual Aids
- Interactive Discussion
- Participatory Exercise
- Action Learning
- Class Activities
- Case Studies
- Workshops
- Simulation