



## Generator Operation & Protection

Date	Venues	(\$)Fees	Book your seat
24 Mar -28 Mar 2024	Cairo	2900	<a href="#">Register Now</a>

### Course Overview:

- The course is intended to provide electric engineers with collective and recent knowledge about generators exciters including: ordering specifications, operation, analysis, maintenance, testing and protection

### Course Objective:

The course is intended to provide electric engineers with collective and recent knowledge about generators exciters including: ordering specifications, operation, analysis, maintenance, testing and protection. The information includes both theoretical and practical aspects and will be enhanced with computer software in appropriate sections.

### Who Should Attend?

- Electric utility engineers in various departments deal with interconnected generators testing, protection, operation, stability and control. The course is also suitable for all engineers deal with emergency generators and local generation.

### Course Outline:

- Generator Operation
  - Correct Phasing
  - Load Capacity
  - Protection
  - Earthing
  - Installation
  - Parallel Operation Synchronizing
  - Documentation
- Voltage Control and Voltage Restraint
  - Design
  - Function and Application
  - Operating Principles
  - Testing and Calibration
  - Restricted Earth Leakage
- Frequency Control
  - Relays Design and Construction
  - Function and Application Operations
  - Testing
- Relays & Protection
  - Differential
  - Reverse Power
  - Negative Sequence
  - Loss of Field
  - Frequency
  - Voltage Control
  - Over current Control
  - Over speed

- Relay Settings
- Maintenance
  - Safety Audits
  - Safe Working Practice
  - Procedures
  - Vibration
  - Diagnostics

### **Training Methodology:**

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



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