



## HV Operation

Date	Venues	(\$)Fees	Book your seat
22 Dec -26 Dec 2024	Cairo	2900	<a href="#">Register Now</a>

### Course Overview:

- Understand the statutory duties and obligations placed on organizations and individuals by looking at relevant legislation and regulations

### Course Objective:

- At the end of the course participants should be able to:
- Understand the statutory duties and obligations placed on organizations and individuals by looking at relevant legislation and regulations
- Describe the key safety procedures required for work on or near high voltage equipment
- Identify the main operational features on a range of high voltage switchgear
- Enroll on the High Voltage System Operations.

### Who Should Attend?

- Personnel who are being considered for authorization and who are required to develop an understanding of operational practices and or have responsibility for, or are directly involved in the implementation of high voltage safety procedures

### Course Outline:

- **Basic Electrical Theory**
  - - Voltage & Current - Energy
  - - Resistance & Reactance - Connection Methods
  - - Transmission Systems - Star & Delta Connections
  - - Circuit Impedance - Distribution Transform
- **Power Systems**
  - - System Arrangement & System Reliability
  - - Power Systems - Operating Parameters
  - - HV Distribution Reticulation Systems
  - - Single Wire Earth Return Systems (S.W.E.R)
- **Substations**
  - - Working Conditions & Arrangements
  - - Current & Voltage Transformers
- **Rating & Fault Current**
  - - Equipment Ratings
  - - Fault Currents
- **Permits and Safety**
  - - Practical Application of "Electrical Safety Instructions"
  - - Electrical Access Permit (EAP)
  - - Vicinity Authority (VA)
  - - Sanction To Test (STT)
  - - Handover Certificate
- **Distribution Equipment**
  - - Poles, Conductors, Insulators & Insulator Types

- . Types & Sizes of Underground & Overhead Service Cables
- . Underground (Insulated) Cabling Systems
- . Switches & Pole Mounted Switchgear
- . Distribution Transformers
- . Parallel Operation of Distribution Transformers
- . Let through Current of Transformers
- . Ferro Resonance
- **Recloses & Sectionalizes**
- - Operation - Closing & Tripping
- - Sequence Timing & Resetting
- - Power System Protection

#### **Training Methodology:**

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



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