



## Electrical Equipment & Control Systems ; Commissioning, Testing & Start-Up of Electrical Systems

Date	Venues	(\$)Fees	Book your seat
31 Mar -04 Apr 2024	Cairo	2900	<a href="#">Register Now</a>

### Introduction

Electrical equipment and devices are vital in all electrical installation so as to ensure continuity and efficient operations. Equipment like transformers, motors, variable frequency drives, uninterruptible power supplies and batteries are today's common components in most electrical installations. Safe operations are essential as they are protected by modern and sophisticated relays and protection devices.

Protection systems are installed to prevent faults from damaging electrical plant and to initiate isolation of faulted sections in order to maintain continuity of supply elsewhere on the system. Recent changes in technology together with changes in the manner in which Utilities and Industrial organisations operate, has greatly emphasized the development of integrated protection and control.

#### This seminar will highlight:

- The construction and operations of transformers and motors
- The characteristics of variable speed drives
- The importance and role of UPS and batteries
- The types of maintenance
- The functionalities of protection relays

### Objectives

#### At the end of this seminar, you will learn to:

- Describe the various types of transformer and motors
- Appreciate the importance of uninterruptible power supply and batteries
- Analyse the various transformer tests
- Explain the operation of the various types of testing instruments
- Recognise the symbols in electrical drawings

### Training Methodology

Each seminar participant will receive a copy of the comprehensive seminar notes. The presenter will outline and discuss the topics using computer displays, videos and PowerPoint presentation. The seminar is designed to have an interactive format to maximize delegate participation. Questions and answers are encouraged throughout and at the daily sessions. Needs-based case-studies and examples will be discussed in problem solving workshop sessions.

### Organizational Impact

On successful completion the organizational impact would be able to:

- Developed a structured approach and understanding of the major electrical equipment installed
- Appreciation of the workforce in handling the troubleshooting, maintenance and repair of electrical equipment
- Correct handling of testing and measuring instruments
- Examples and case studies to illustrate the material being discussed
- Technical material appropriate to the organisations represented
- Ensure safe operations of the electrical installation

## Personal Impact

**On successful completion of this seminar delegates will be able to:**


- Understand the operations and characteristics of transformers and motors
- Better understand the design and functionality of variable speed drives, UPS and batteries
- Utilize single-line diagrams and schematics for troubleshooting
- Understand standard work practices plus be able to develop job plans and maintenance strategies
- Show a refreshed knowledge when using, testing and measuring instruments
- Able to troubleshoot AC motors problems

## Who Should Attend?


The technicians and maintenance staff will be able to comprehend the construction, operations, function of major electrical equipment components. This will enable them to carry out effective maintenance activities.

**This seminar is suitable to a wide range of professionals but will greatly benefit:**

- Electrical engineers
- Electrical supervisors
- Maintenance technicians
- Managers in-charge of electrical installations
- Project engineers

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