



Substation Maintenance

Date	Venues	(\$)Fees	Book your seat
15 Dec -19 Dec 2024	Cairo	2900	Register Now

Course Overview

This course is aimed at introducing the power-substation layout and design to utility and industrial engineers. The course will cover substation layout, design, grounding and protection. The course will be supported by practical design examples.

Course Objective

To improve the skills of engineers involved in design, operation and maintenance of electric power substation. A degree in electrical engineering is recommended to gain maximum benefit from the course

Who Should Attend?

Engineers involved in design, operation and maintenance of power substations. A degree in electrical engineering is recommended to gain maximum benefit.

Course Outline

- **Introduction**
- **Power Systems**
- Substations of Voltages 230 kV and Above**
- Substation Busbars
 - **Substations of Voltages up to 220 kV**
- Transformer, Reactors and Regulators Transformers**
- Reactors**
- Regulators**
- Outgoing and Incoming Overhead Lines**
- Tower Selection
 - **Substation Grounding**
- Zones of Protection

-Circuit Breakers

-Reclosers, Sectionalizers and Fuses

- **Lightning Protection**

Training Methodology

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



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