



## Avoiding Power Transformer's Failures During Transmission

Date	Venues	(\$)Fees	Book your seat
10 Mar -14 Mar 2024	Cairo	2900	<a href="#">Register Now</a>

### Course Overview:

This course covers the theory, operation, maintenance and testing of power transformers and auxiliary equipment. Topics included are transformer fundamentals, transformer ratings, transformer cooling, nitrogen gas systems and insulation systems. The source concludes with in-depth discussions on transformer testing techniques. This course is applicable to technicians and engineers who need a sound understanding of power transformer operation and maintenance.

Students will learn safe and proper maintenance and testing procedures on pad-mounted, power transformers. The course covers transformers used in commercial and industrial power distribution systems, including oil

### Course objective

Upon completion of this course, the participant should be able to:

Explain the basic operation of a transformer.

Discuss turns ratios and calculate terminal voltage and current.

Discuss terminal markings and various single and three phase wiring schemes. (WYE vs. DELTA)

Explain how to perform a polarity test on a potential transformer.

Discuss the electrical testing performed on transformers such as insulation resistance testing, excitation and power factor testing.

Discuss the various tests performed on insulating oil.

Identify all methods for oil analysis and diagnosis

Learn and professionalize their knowledge about electrical and mechanical testing.

Learn how to plan a transformer assessment program

Learn how to plan a maintenance program against the reliability index required

### Who Should Attend?

Field and shop technicians, field engineers, supervisors and others responsible for the testing and maintenance of power transformers rated 750kVA to 500MVA and 4.16kV to 500kV

### Course Outline:

- Transformer Principles

- Vector Diagrams
- Transformer Classifications
- Magnetizing Circuits
- Transformer Construction (Construction)
- Cooling
- Tap Changers
- Transformer Connections
- Transformer Maintenance
- Transformers And Relaying

### **Training Methodology:**

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



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