

**TRAINING TITLE**

**TRANSFORMER MAINTENANCE PROCEDURE AND POWER RESUMING**

**Training Duration**

**5 day**

**Training Venue and Dates**

<b>Ref. No.</b> EE149	<b>Transformer Maintenance Procedure and Power Resuming</b>	<b>5</b>	<b>26-30 May 2025</b>	<b>\$5,500</b>	<b>DUBAI, UAE</b>
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In any of the 4 or 5-star hotels. The exact venue will be informed later.

**Training Fees**

- \$5,500 per participant for Public Training includes Materials/Handouts, tea/coffee breaks, refreshments & Lunch

**Training Certificate**

**Define** Management Consultants Certificate of course completion will be issued to all attendees.

**TRAINING DESCRIPTION**

This course covers the key practices and procedures involved in maintaining transformers and restoring power after outages. Participants will learn the fundamentals of transformer operation, routine maintenance tasks, troubleshooting techniques, and safe power resumption processes.

**TRAINING OBJECTIVES**

**By end of the course participants will be able to understand**

- Understand the operation and components of transformers.
- Learn preventive maintenance procedures to ensure optimal transformer performance.
- Identify common transformer faults and troubleshooting methods.
- Understand power resumption processes after transformer failure.
- Apply safety protocols and standards during maintenance and power resumption.

**WHO SHOULD ATTEND?**

- Electrical engineers and technicians
- Maintenance personnel in power plants or substations
- Facility managers responsible for electrical systems
- Power utility operators

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- Safety officers in electrical maintenance

### **TRAINING METHODOLOGY**

A highly interactive combination of lectures and discussion sessions will be managed to maximize the amount and quality of information and knowledge transfer. The sessions will start by raising the most relevant questions and motivating everybody to find the right answers. You will also be encouraged to raise your own questions and to share in the development of the right answers using your own analysis and experiences. Tests of multiple-choice type will be made available on daily basis to examine the effectiveness of delivering the course.

Very useful Course Materials will be given.

- 30% Lectures
- 30% Workshops and work presentation
- 20% Group Work & Practical Exercises
- 20% Videos & General Discussions

### **COURSE PROGRAM**

#### **Day 1: Introduction to Transformer Operation**

- Overview of transformer types and components
- Principles of transformer operation and power distribution
- Common causes of transformer failures

#### **Day 2: Preventive Maintenance for Transformers**

- Routine inspection and maintenance tasks
- Monitoring transformer health: temperature, oil levels, and insulation
- Cleaning and lubrication procedures

#### **Day 3: Troubleshooting Transformer Faults**

- Identifying signs of transformer failure (e.g., noise, oil leaks)
- Common faults: electrical, mechanical, and insulation failures
- Diagnostic tools and techniques

#### **Day 4: Power Resumption Process**

- Steps to resume power after a transformer failure
- Switchgear operation and fault isolation
- Coordination with grid and operational teams for safe power restoration

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## Day 5: Safety, Compliance, and Best Practices

- Electrical safety protocols during maintenance and power resumption
- Regulatory standards and compliance (e.g., IEC, OSHA)

**NOTE:**

**Pre-& Post Tests will be conducted.**

**Case Studies, Group Exercises, Group Discussions, Last Day reviews, and assessments will be carried out.**



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