

3-Day ONLINE TRAINING PROGRAM

INTELLIGENT TRANSFORMER MAINTENANCE

A journey through the fascinating world of Transformers



Power Transformer Maintenance – A Shift from Traditional Practices

OVERVIEW

Unfortunate fatal accidents due to failure of equipment like transformers, boilers etc. leading to loss of lives is a very serious issue that has always been an area of concern. Keeping in view the gravity and importance of workplace safety, TATA Power-DDL has included these important areas in the scope of its training activities and has already conducted many training programs on safety and protection, substation equipment maintenance, electrical and fire safety etc. Besides, the high rate of failure of power distribution transformers and services are also major challenges faced by power utilities.

The failure rate of distribution transformers in India is around 12% to 16% against less than 1% in the developed countries. Likewise, the rate of damage of power transformers stands at 3% within the country whereas it is about 1% in advanced countries. Transformers get damaged due to power overload, unbalancing and poor maintenance whereas the users are of the opinion that the causes of failure are the faulty design, substandard material and poor workmanship.

To address the issues of power transformer failure and understand the underlying causes, TATA Power Delhi Distribution Limited has decided to take a lead role in organising a 3-Day Workshop on Power Transformer Maintenance.

OBJECTIVE

To familiarise the participants about:

- Construction, intelligent operation & maintenance of power transformers and distribution transformers
- New technology adoption for intelligent transformer maintenance
- Basis of protection system in sub-transmission network
- Intelligent and innovative protection schemes enhancing safety and reliability
- Air Insulated Switchgears vs. Gas Insulated Switchgear
- Type, routine and commissioning tests of power transformers
- Different modes of transformer failure, their causes, remedies and importance of transformer oil and insulation for long life and efficiency of transformer

WHO SHOULD ATTEND

- Level A & B Utility Personnel (CE/SE/EE/AE)
- Electrical Engineers
- Project Engineers
- Design Engineers
- Field Engineers

WHAT WILL YOU LEARN

- Innovative technology adoption for maintenance
- Erection, commissioning & testing
- Power System Protection System and various associated schemes
- Understanding and significance of interlocks in AIS and GIS
- Importance of electrical earthing
- Types of electrical power system earthing
- Operation & maintenance
- Conditional monitoring
- Designing and implementing a scientifically designed maintenance program
- Maintenance and life cycle extension
- Repair & retrofit
- Transformer oil analysis and diagnostics
- Internationally used procedures in oil analysis
- Know about the predictive, periodic and condition based maintenance methodologies
- Know about the corrective actions you can take based on oil data provided by the laboratory
- Masterful performance and landscape of testing avenues
- Legal information
- Reliable electricity for the digital revolution
- Maintenance of aged infrastructure

METHODOLOGY



Lectures



Discussions



Case Studies

2 sessions per day of 2 hour duration comprising of lecture and Q&A on all 3 days

Customisation of the program to include any specific requirement can also be done

PROGRAM FEE

DESCRIPTION OF CHARGES

UNIT RATE

<p>Cost of Online Training comprising of 6 sessions for upto 30 participants from one company</p> <ul style="list-style-type: none"> • Cost per Session – Rs 12,500 • Cost for 6 sessions – Rs 12,500 x 6 sessions = Rs. 75,000 • Taxes and Levies extra 	Rs. 75,000
<p>Cost of Online Training (comprising of 6 sessions spread across 3 days) for every additional participant over and above 30 participants from one company excluding applicable taxes and levies</p> <ul style="list-style-type: none"> • Cost per Session – Rs 500 • Cost for 6 sessions – Rs 500 x 6 sessions = Rs. 3,000 • Taxes and Levies extra 	Rs. 3,000

Remarks: Includes Online Training Cost, Course material and Presentations, Certificate of Participation

The fee is payable either through Cheque or Demand Draft favouring "Tata Power Delhi Distribution Limited, New Delhi" crossed 'A/C payable only' or in case of direct ECS you can pay into A/C no. 00030310011605, HDFC Bank Ltd. Branch, G-3-4, Suryakiran Building, 10, KG Marg, New Delhi-110001, IFSC Code: HDFC0000003

Payment Terms: 100% advance after confirmation of nomination.

WHOM TO CONTACT

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TATAPOWER-DDL

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