

## INSTITUTE FOR DESIGN OF ELECTRICAL MEASURING INSTRUMENTS, MUMBAI

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### WORKSHOP ON CALIBRATION & TESTING OF ELECTRICAL MEASURING INSTRUMENTS

DURATION	Three Days
TIMINGS	10.00 a.m. to 5.30 p.m. daily
VENUE	IDEMI, Mumbai
FEE/PARTICIPANT	Rs. 6618/- (including Service Tax)
INTAKE CAPACITY	20 participants

#### WHO SHOULD ATTEND

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The program is useful to Engineering Professionals who are concerned / connected & responsible for

1. Calibration of all types of Electrical / Electronic Measuring Instruments
2. Maintenance of Electrical Measuring Instruments / Standards
3. Calibration of Instrument Transformers
4. Quality Control
5. Manufacturing of Instruments, Marketing etc

#### WHY SHOULD YOU ATTEND

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The programme has been particularly designed such that the practicing professionals, should also be aware the Hierarchy of standards, Traceability of standards and standard practices in standard Laboratory. The programme should help to develop working-skills and generating calibration reports. The programme covers wide range of Electrical measuring instruments. This programme demonstrates the practical skill in calibrating the variety of Electrical Measuring Instruments, which will also meet the requirements of ISO/IEC 17025 and specific criteria for Electro-Technical Measurements as per NABL

### WHAT THE PROGRAM CONTAINS

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1. Calibration Philosophy, Traceability of Standards
2. Standard Practices in Standard Laboratories
3. Errors in Measurements & Estimation of Errors
4. Calibration of
5. Voltmeter, Ammeter, Shunt, CT/PT, Frequency Meter, Wattmeter
6. Phase Angle/Power Factor Meters, Analog / Digital Multimeter, Megger
7. Single Phase as well as 3-Phase Energy Meters, Harmonic Analyzers
8. Measurements of L, C, R.
9. Estimation & Evaluation of Total Uncertainty in Measurement as per NABL – 141
10. Specific Criteria for Laboratory Accreditation as per NABL 121 for Electro-Technical
11. Parameter
12. Group exercises on Error Evaluation
13. Uncertainty Calculations in Electrical Measurements

**Certificate of participation will be issued to each participant**