



वैद्युतिक मापन उपयंत्र अभिकल्प संस्थान, मुंबई

INSTITUTE FOR DESIGN OF ELECTRICAL
MEASURING INSTRUMENTS, MUMBAI

भारत सरकार की सोसाईटी
सूक्ष्म, लघु एवं मध्यम उद्यम मंत्रालय

Government of India Society
Ministry of Micro, Small & Medium Enterprises



**WORKSHOP ON ESTIMATION & EXPRESSION OF
UNCERTAINTY IN MEASUREMENT
AS PER NABL - 141**

(Code No. 1968101)

1. Duration : Two Days
2. Date : 6th – 7th June 2019
3. Timings : 9.30 a.m. to 5.30 p.m. daily
4. Venue : IDEMI, Mumbai
5. Fee/participant : Rs.7,000/- + 18 % GST
per participant
(Non Residential charges)
**Payment can be transferred through
NEFT/RTGS or DD drawn in favour of
IDEMI, Payable at Mumbai in advance to
confirm the nomination.**
6. Intake Capacity : 25 participants
7. Who should attend :

Persons working in calibration laboratories, Quality control, Standards room, Production control and Design & Development, who are concerned with measurement, testing & calibration.

8. Why should you attend :

The expression of '**Uncertainty in Measurements**' is an integral component of the certificate being issued by the calibration and testing laboratories. The results must be produced with a high degree of exactness in measurement system. This concept is equally true for all other fundamental units of measurement as per ISO/IEC 17025 (General requirements for the competence of testing and calibration laboratories). Further, repeated observations made during precision measurement of any parameter are rarely found identical even when these are made under the same conditions. This is due to the UNCERTAINTY in measurement, which is prevalent in all measurements.

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Cert No. C-0085, C-0086,
C-0087, C-0186, T-1358, T-3458
NABL ACCREDITED LAB

Swatantryaveer Tatyapa Tope Marg, Chunabhatti, Sion P.o. Mumbai - 400 022. (M.S)

Phone : (022) - 2405 0301/2/3/4 Fax : (022) - 2405 0016.

• Website : www.idemi.org • Email : idemi@vsnl.net, info@idemi.org



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9. Objectives :

This workshop is designed to expose the participants not only to the concept of measurement uncertainty, but also provide an understanding of how to actually estimate the same for different types of measurement as per NABL Document No. 141. Participants would be required to estimate measurement uncertainty of actual case studies.

10. Workshop Contains :

- Uncertainty – concept, sources & measures
- Definitions of related terms and phrases
- Evaluation of standard uncertainty
- Expanded Uncertainty
- Step by step procedure for calculating, the **Uncertainty in Measurement**
- Case studies in Calibration of Pressure, Temperature, Mass, Electrical, Dimension Parameters

11. Faculty:

Trained & highly experienced Lab Assessor and the Sr. Technical personnel from Calibration Laboratory.

12. Certificate of participation will be issued to each attending participant.

PRADEEP GUJARATHI
Dy. Director (Elect.)



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