INSTITUTE FOR DESIGN OF ELECTRICAL MEASURING INSTRUMENTS, MUMBAI

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

(Code No. 2368101)

1. <u>Duration</u> : Two Days (Offline Training Programme)

2. Date : 28th – 29th February 2024

3. Daily <u>Timings</u> : 9:30 am to 01.30 pm

02.15 pm to 05.30 pm

4. <u>Venue</u> : <u>Training Programme will be conducted Offline</u>.

5. Fee/participant : **Rs. 8,260/-** (Rs. 7,000/- + 18 % GST) per participant

Payment can be transferred through NEFT/RTGS or DD drawn in favour of IDEMI, Payable at Mumbai in advance to confirm

the nomination.

You can also make online payment by using following link:

https://rzp.io/l/gGcnfmx

6. Who should attend

Persons working in All types of Calibration & Testing Laboratories, Quality Assurance Department, Quality Control Department and R & D Labs who are concerned with measurement, testing, calibration and quality assurance.

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 which need to be estimated and evaluated.

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9. Objectives

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

10. <u>Training Contents</u>:

- a) Uncertainty: concept, sources & measures
- b) Definitions of related terms and phrases
- c) Estimation & Evaluation of standard uncertainty
- d) Type A & B Uncertainty, Standard Uncertainty, Combined Uncertainty, Degrees of Freedom, Sensitivity Coefficient, Coverage Factor, Expanded Uncertainty
- e) Step by step procedure for Estimation and Evaluation of ${f Uncertainty\ in}$ ${f Measurement}$
 - d) Case studies in Calibration of Pressure, Temperature, Mass, Electrical, Dimension Parameters
- 11. <u>Faculty</u>: 1) Mr. Pradeep Gujarathi, Deputy Director (Elect.), IDEMI, Mumbai 2) Mr. Pankaj Ambekar, Senior Technical Assistant, IDEMI, Mumbai.
- 12. Certificate of participation will be issued to each attending participant.



वैद्युतिक मापन उपयंत्र अभिकल्प संस्थान, मुंबई

INSTITUTE FOR DESIGN OF ELECTRICAL MEASURING INSTRUMENTS, MUMBAI TECHNOLOGY CENTRE



भारत सरकार की सोसाईटी सूक्ष्म, लघु एवं मध्यम उद्यम मंत्रालय, Government of India Society Ministry of Micro, Small & Medium Enterprises

BANK MANDATE

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For Insitute For Design Of Electrical Measuring Instruments

Authorised Signatory

Authorised Signatory

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Institute For Design of Electrical Measuring Instruments S T Tope Marg, Sion P O, Chunabhatti, Mumbai - 400022.





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

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Government of India Form GST REG-06

[See Rule 10(1)]

Registration Certificate

Registration Number: 27AAAAI0012M1Z1

1.	Legal Name	INSTITUTE FOR DESIGN OF ELECTRICAL MEASURING INSTRUMENTS					
2.	Trade Name, if any		INSTITUE FOR DESIGN OF ELECTRICAL MEASURING INSTRUMENT				
3.	Constitution of Business	Society	Society/ Club/ Trust/ AOP				
4.	Address of Principal Place of Business		IDEMI BUILDING, ST TOPE MARG, SION PO, CHUNABHATTI, Mumbai City, Maharashtra, 400022				
5.	Date of Liability	01/07/2	01/07/2017				
6.	Date of Validity	From		01/07/2017	То	Not Applicable	
7.	Type of Registration	Regula	Regular III				
8.	Particulars of Approving Author	ority	Maharashtra Goods and Services Tax Act, 2017				
Signat	ture						
Name RA		RAJESH	RAJESH BHASKAR JADHAV				
Designation D		Deputy C	Deputy Commissioners of State Tax				
Jurisdictional Office		GHATKO	GHATKOPAR-WEST_503				
5 WI 15C							
	e of issue of Certificate	04/12/202					

This is a system generated digitally signed Registration Certificate issued based on the approval of application granted on 04/12/2020 by the jurisdictional authority.