

2nd Workshop on Evaluation of Measurement Uncertainty and ISO 17025

29th Jan-1st Feb, 2018



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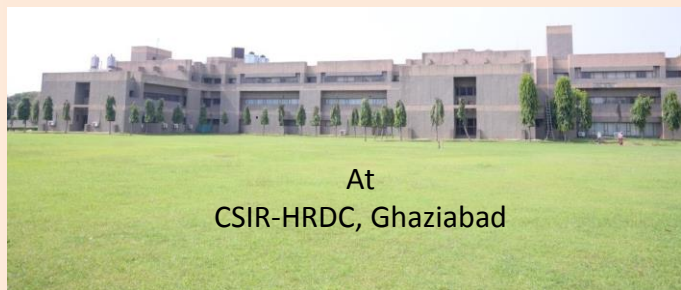


Organised by

**CSIR-Central Scientific Instruments Organisation,
Delhi Centre, Delhi-110012
www.csio.res.in**

&

**CSIR- Human Resource Development Centre,
Central Govt. Enclave, Kamla Nehru Nagar,
Ghaziabad, Uttar Pradesh-201002
www.csirhrdc.res.in**



At
CSIR-HRDC, Ghaziabad

2nd Workshop on Evaluation of Measurement Uncertainty and ISO 17025

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Participant's Name: _____

Designation: _____

Date of Birth: _____

Institute/Industry Affiliation with address: _____

Contact Number: _____

Email: _____

FEE*: Rs. 16000/- + 18% GST = Rs. 18880/-

DD Number: _____ Date: _____

Signature of Participant

Recommendation from controlling authority

Name & Designation with Seal

***Fees to be deposited by demand draft in favour of The Director, CSIO Chandigarh, payable at SBI sector 30 Chandigarh**

About CSIR-CSIO

CSIR- Central Scientific Instruments Organisation, Chandigarh (CSIO) is a premier national laboratory dedicated to research, design and development of scientific and industrial instruments. It is a multi-disciplinary and multi-dimensional apex industrial research & development organisation in the country to stimulate growth of Instrument Industry in India covering wide range and applications. CSIO Regional Centre, New Delhi was established in the year 1961 as one of the Service and Maintenance centers under CSIR-CSIO, Chandigarh. The Center focuses on conducting Training Programmes on Repair, Maintenance and Calibration of Bio-Medical, Analytical and Energy Management Instrumentation along with R&D activities.

About CSIR-HRDC

CSIR-Human Resource Development Centre is a central training establishment of Council of Scientific & Industrial Research, New Delhi. The objective of the Centre is to promote a professional and holistic human resource development in CSIR by offering customised training & development programmes for professionalizing R&D management and support functions in CSIR. CSIR-HRDC is situated in an ideal location of Central Government Enclave, Kamla Nehru Nagar, Ghaziabad, Uttar Pradesh The Centre is around 55 kms from Indira Gandhi International Airport New Delhi and around 35 kms from the New Delhi railway station.

Motivation

As per the requirement of measurements / calibrations, all the laboratories are required to estimate uncertainty of different parameters. While estimating the Uncertainty of Measurements, uncertainty components which are of importance in the given situation should be taken into account. It will include uncertainty of reference standards / materials reported in their calibration certificates, measurement method employed, equipment used and environmental conditions etc. The highly qualified and experienced professionals of respective areas will address the practical problems in deciding the important contributing factors of uncertainty. The programme will provide confidence to the participants for evaluating and reporting the measurement uncertainty of various parameters. The overview of ISO-17025 will also be provided for improvement of performance of laboratories.

Objectives

This workshop is designed to impart an interactive experience to the participants in the area of measurement uncertainty of electrical & mechanical parameters. The main objective of the programme is to encourage the engineers, scientists and technologists working in the area of testing and calibration in laboratories/ institutes to venture into different aspects of uncertainties. During this course, participants will be provided hands-on training for evaluation of uncertainties. Participants will also be given an overview of ISO-17025 for improving the quality of measurement results.

Course Contents

- Basics and overview of ISO 17025
 - Elements of IS/ISO/IEC-17025:2005 Management requirement, Technical Requirements
- Measurement Uncertainty
 - Concepts and terminology
 - Sources of uncertainties
- Components of uncertainties
 - Type A uncertainty
 - Type B uncertainty
- Hands on Sessions for Uncertainty Evaluation of following parameters:
 - AC, DC Voltage & Current
 - Length & Mass

Pedagogy

- Interactive sessions by experts
- Case studies of uncertainty evaluation
- Intense hands-on / practical sessions
- Discussions on various aspects

Who should attend

Scientists, Technical Officers, Technical Assistants from CSIR and other Govt. laboratories. Technologists from private laboratories/ industries/ academic institutes performing measurements, testing & calibration and persons aspiring to take up career in the field of Electrical/Electronics and Mechanical Engineering.

Seats are limited and will be filled on first come first serve basis. Number of participants per institute/ industry may be limited in case of overwhelming response.

Participation Fees

For Industry/ Academic Institutes/ Laboratories/ Govt. Organisations: Rs. 16000/- + 18% GST = Rs. 18880/-

***Fee includes registration, course material, fooding lodging and boarding**

Important Dates

Last date for Registration: 23.01.2018

Notification of acceptance: 25.01.2018

Dates of Workshop: 29 Jan to 01 Feb, 2018

Weather Conditions

Minimum Temperature: 4 °C
Maximum Temperature: 23 °C

Participants are advised to carry woollen clothes