

Workshop on Uncertainty of Measurement in Testing & Calibration

16-17 January 2020: Bangalore

Confederation of Indian Industry-Institute of Quality (CII-IQ) is organizing training on Uncertainty Measurement in Testing & Calibration at Bangalore.

Reliability of measurements and test / calibration results has assumed great significance with the growing recognition that they can critically affect decisions in procurements, certification, regulation, healthcare, etc. This has led to lot of confidence being placed on the accreditation systems through which they are assessed and used. One of the most important technical criteria prescribed in ISO 17025 is the evaluation of uncertainty of measurements both for testing and calibration results and to record these in the test reports.

Accurate determination of uncertainty is dependent on various factors : identification of all the significant sources of uncertainty for a given measurement/analysis, recognizing whether these are random or systematic (Type A / Type B), their probability distribution, accurate estimation of their individual contributions as uncertainty component, the manner in which uncertainties are combined, etc.

While these factors are relatively easily understood and applied for mechanical and electrical measurements, the approach for analytical testing is different and complex and very few trainings, if at all, are being conducted to apply the principles of uncertainty estimations in analytical testing , both chemical and instrumental.

In order to cater to this specific need, the Confederation of Indian Industry is organizing a workshop on Uncertainty Measurement in testing & Calibration .

Workshop objectives:

The workshop would cover the basic principles of uncertainty measurement and their specific application in various measurements. The following topics would be covered:

- ♣ Uncertainty : Concepts and theory
- ♣ Uncertainty in analytical measurements: Terminology and uncertainty components
- ♣ Estimation of uncertainty in analytical measurements
 - o Specification of the measurand
 - o Identifying uncertainty sources
 - o Quantifying uncertainty
 - o Calculation of combined uncertainty

- ♣ Reporting of uncertainty
- ♣ Practical exercises on uncertainty estimation in few analytical measurements like
 - o mass measurements,
 - o Linear Measurements ,

In addition advices on approaches for specific queries raised by participants would be provided.

The workshop will be conducted in a highly interactive environment to ensure positive transfer of learning objectives to each participant.

Expected participation :

The programme is beneficial for personnel engaged in measurement, testing, calibration and its supervision in third party and captive laboratories.

CII-Institute of Quality will give the participants a course completion certificate upon successful completion of the two-day workshop.

We would like to impress upon you that workshops of this nature are audience specific and are organized on a very limited basis for a dedicated set of people. At the moment CII is the only body conducting these programmes. We hope you will take advantage of this unique workshop by sending nominations. Since seats are limited to 20, may I request you to forward your nominations at the earliest?

- Delegate Fee CII Members :-Rs 12,000/ Plus 18 % tax-per delegate
- Delegate Fee CII Non Members :-Rs 13000 / Plus 18 % ax – per delegate
- For SSI Members :- 8000/ Plus 18 % Tax per delegate.

I am writing to invite you to take advantage of this training course and nominate colleagues from your organisation at the earliest. Registration and other details are enclosed.

Kind regards,

For Registration please contact:

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