(MSI-SR)

Metrology Society of India -Southern Region
CMTI Campus, Tumkur Road, Bangalore-560022
Website: www.msi-sr.org,
E-mail: msisr2010@gmail.com

Hands on Training programmes

We are extremely happy to inform about the short term training programmes in metrology, being organised in association with CMTI, NPL, NABL, STQC and also with National/International manufacturers/representatives as sponsors. The training program draws faculty from pool of experts, who are having wide experience in the relevant field of calibration. The training programs have been framed in such a way to cover both theory and hands on practical exposure.

Venue: CMTI Campus, Tumkur Road, Bangalore-560022
Time: 09:30 to 17:30Hrs

Group-I Dimension:	
Training on calibration of Steel scales, Tapes, Verniers callipers/digital/analogue, Micrometers-external/internal, Dial indicators-plunger/lever-transmission(BG), V blocks, surface plates, Straight edges, parallels, Granite squares, Height gauges-analogue/digital, Limit gauges Nogo&go- plug&ring, bevel protractor, spirit level, engineers squares, Thread ring/plug gauges, Introduction of new specific criteria NABL122.	17th to 19th Dec 2014
Group-II Mass, Volume, Torque and pressure:	
Training on calibration of Mass, Weighing Scale calibration, Volume calibration, Pipette calibration, pressure gauges, Pressure transmitters using dead weight testers or digital pressure calibrators, torque wrenches, torque screw drivers, rotary torque tools calibration, Introduction of new specific criteria NABL122.	17th to 19th Dec 2014
Group-III Force and Hardness:	
Uniaxial testing machines (UTM), Rockwell, Brinell and Vickers' hardness testers, Rubber hardness Testers (Shore hardness) ,Push pull gauges, Introduction of new specific criteria NABL122.	17th to 19th Dec 2014
Group-IV Electro Technical:	
Training on calibration of Analog & Digital Multimeters, Clamp meters, Voltmeters, Ammeters, Resistance meters (2 Wire & 4 wire), Insulation resistance up to 1000 V, Decade Resistance box (DRBs), Earth testers, High Voltage Break down testers, Oscilloscopes & Scope meters (Bandwidth up to 500 MHz), AC/DC Power meters & Wattmeter, RF power meters & Signal generators, Energy meter, Counters /Frequency meters (Low frequency).	17th to 19th Dec 2014
Group-V Thermal:	
Temperature calibrators (Electrical stimulation) both source & Measure mode for different types of Thermocouples & RTDs. Training on calibration of contact type temperature sensor, (for calibration of RTDs, Thermocouples, Digital, Temperature indicator, data logger, controller, and recorder). Liquid-in-Glass Thermometer, Temperature Gauges, Temperature Calibration of Temperature Block Calibrators Calibration of Infrared Pyrometers, Onsite calibration of oven, furnaces, heating chamber, cold chambers liquid baths/dry, block furnaces, environmental chamber etc.	17th to 19th Dec 2014

Scope of the training programmes:

- Calibration procedures
- Selection of master/reference equipment
- Requirement of environmental conditions
- Standard/guidelines to be followed
- Evaluation of measurement of uncertainty/CMC
- Quality checks for assuring quality of calibration results
- Reporting of results and minimum requirement for Accreditation

Purpose:

- **For the benefit of all laboratory personnel and authorised signatories to fulfil the training requirements of IS/ISO 17025 and specific criteria**

- **For benefit of NABL auditors to enhance their knowledge for effective auditing.**

Certificate:

- **Training Certificate will be issued**

A. Registration fee for each group

1. Rs 7,500/-per person for MSI-SR corporate/ life members.
2. USD 300 for foreign participants
3. Rs.10,000/-for non-members of MSI-SR.(This fee includes the Life Membership of Rs. 2000/-)
4. Rs.18,000 for non-members MSI-SR (This fee includes the Corporate Membership of Rs.10,000/-).

Note-1: Participant can register only one of the above groups
Note-2: Boarding and travelling expenses are to be borne by the participants.
Note-3: Best effort is made to provide hands on training wherever possible, practicable and feasible.

B. Last date for Registration: 3rd December, 2014.

As limited seats are available, Registration will be on first come first serve basis. Early registration is suggested to avoid last minute rush and disappointment.

C. Payment Details:

i. Details for transfer of money through bank by RTGS/NEFT is as below:
Syndicate Bank, Peenya Industrial Area, Bangalore-560058
Bank A/c No.:**04551010008212**, IFSC Code: **SYNB0000455**

ii. Cheque/ Demand Draft drawn in favour of Metrology Society of India- Southern Region **payable at Bangalore and it to be sent to the below address:**
Metrology Society of India - Southern Region, CMTI campus, Tumkur Road, Bangalore-560 022

D. For further details please contact:

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