

Greetings from CMTI,

We are pleased to inform you that we are conducting a 05 days Non-Residential Training programme on "**Calibration of Dimensional Measuring Equipments**", course code **0320**

### **Highlights / Overview of the Program:**

The course aims at providing a theoretical base along with practical training on calibration of Dimensional Measuring Equipments, machine tools and measuring machines. It basically covers the aspect of "WHY & HOW of Calibration" which include requirements, methods and evaluation procedures for calibration of Dimensional Measuring Equipments and Machine Tools. Participants are also appraised of the usage of sophisticated equipment such as Laser Measuring System, Co-ordinate Measuring Machine, Form Tester, etc. and use of computers for the evaluation of data. The participants will be given hands-on experience on different types of measuring equipment

### **Target Participants:**

Personnel in Inspection, Quality Assurance, Metrology

### **Programme Schedule**

It is 05 day Non Residential Training Programme scheduled during **29<sup>th</sup> July – 02<sup>nd</sup> August 2024**. The Programme will be held at Central Manufacturing Technology Institute, Bangalore

### **Participation Fees**

**Rs. 19,500/- plus GST @ 18%\*\*\*, per participant. This includes Course Kit, working veg lunch, midsession tea.**

Course Fee can be paid through **NEFT / RTGS / Demand Draft**. Demand Draft to be drawn in favor of "Central Manufacturing Technology Institute", payable at Bangalore and should reach CMTI one week before the actual date of commencement of the course.

### **Beneficiary for RTGS/NEFT**

- a) **Name : Central Manufacturing Technology Institute**
- b) **GST No: 29AAATC2085K1ZJ**
- c) **Account No :10521862015**
- d) **Bank Name & Branch: State Bank of India, Yeshwanthpur Branch**
- e) **IFSC Code :SBIN0003297**
- f) **MICR Code : 560002055**

### **Additional Information:**

1. A 10% rebate on course fee will be given to organizations nominating 3 or more participants for each programme, only if payment is made in advance, ten days before the commencement of the course.
2. Individuals/ Companies interested in participation are requested to fill in the enclosed Enrollment Form and submit at the earliest.
3. Participants are advised to proceed for the programme only after the nominations / Programme confirmed by us (by Fax / Letter / Phone / E-Mail).
4. Participants should report at CMTI on the day of commencement of the course. Participants are advised to reach Bangalore the previous day evening/ night.
5. Course will be conducted from 09:00 to 17:00 hrs. Participants may plan their return journey accordingly.
6. Participants will be given Certificate after the completion of the Training Programme
7. Enclosed are the tentative programme contents for ready reference
8. GST No. to be shared while sending your nomination / Registration (If a company is exempted from GST they have to provide GST Exemption certificate).
9. Please note that Course fee once paid will not be refunded. However, change in nomination will be permitted.

**Note: \*\*\* Taxes and other levies will be charged as per the prevailing rates at the time of Billing**

For further enquiries / registration / nominations, please contact:  
**Asha R Upadhyaya, Joint Director & Centre Head – AEAMT,**  
09449842686 / 78 Fax: (080) 2337 0428  
E-mail– training@cmti.res.in, vinay@cmti.res.in

# CENTRAL MANUFACTURING TECHNOLOGY INSTITUTE

Tumkur Road, Bangalore 560 022

## Training Programme On “Calibration of Dimensional Measuring Equipments”

### Tentative Programme Schedule

Day	Topic
Day 1	Introduction to Calibration
	Introduction to Dimensional Metrology
	Visit to CMTI Labs
	<b>Demo I – (Vernier Caliper, External Micrometer, Dial Gauge )</b>
Day 2	ISO/IEC 17025 – Quality System Requirements
	<b>Demo II- (Bevel Protractor, Spirit level, Electronic level, Angle Gauges )</b>
	<b>Demo III – (Radius Gauge, Thread Pitch Gauge, Steel Scale/Tape, Plug Gauge, Ring Gauge)</b>
Day 3	Concepts of UOM
	Calibration Procedures
	<b>Demo IV – (Granite Square, Straight edge and Parallel, Surface Plate)</b>
Day 4	Calibration of Measuring Equipments
	<b>Demo V – (S R Master, Form Masters , Optical Flat and Parallel)</b>
	<b>Demo VI – (Slip Gauges, Universal Length Measuring Machine, Profile Projector, Height gauge)</b>
Day 5	Procedure for Calculation of UOM (Examples)
	<b>Demo VII – (Laser Measurements)</b>
	<b>Demo VIII – (Calibration of CMM)</b>
	Concluding session