

Greetings from CMTI

We are pleased to inform you that we are conducting a 02 day Non-Residential Training programme on "**Non-Destructive Testing**", course code **0870**

### Highlights / Overview of the Program:

Non-Destructive Testing (NDT) refers to flaw detection in raw materials as well as in finished components as part of qualification test involved before and after production process. The defects present in raw materials and components will cause catastrophic failure of components during manufacturing as well as service. Further, NDT technique is also adopted as part of machine conditioning and monitoring activities. The four extensively adopted processes are Dye Penetration Test, Magnetic particle Test, Ultrasonic Test and Radiography testing. Knowledge on these helps to identify and select appropriate technique for Non-destructive evaluation.

The course objective is to make the quality control personnel aware of the NDT techniques and its importance in qualifying the material for the manufacture of components. Knowledge on this helps the quality control personnel to perform effective vendor evaluation. The course will be of significance to manufacturing engineers in selection of appropriate flaw detection techniques.

#### Topics

- Significance of performing NDT
- Different NDT techniques
- Description of NDT technique
  - a) Dye Penetration Test
  - b) Magnetic particle Test
  - c) Ultrasonic Test
  - d) Radiography testing along with practical demonstration

#### Target Participants:

*This course is designed for laboratory managers, quality control engineers and vendor developers*

#### Programme Schedule

It is 02 day Non Residential Training Programme scheduled during **22<sup>nd</sup> – 23<sup>rd</sup> July 2024**. The Programme will be held at Central Manufacturing Technology Institute, Bangalore

#### Participation Fees

**Rs. 7,800/- 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:

**Mrs. Asha R Upadhyaya, Joint Director & Centre Head – AEAMT,**

09449842686 / 78 Fax: (080) 2337 0428

E-mail– training@cmti.res.in

**CENTRAL MANUFACTURING TECHNOLOGY INSTITUTE**

Tumkur Road, Bangalore 560 022

**Training Programme**  
On  
**"Non-Destructive Testing"**

**Tentative Programme Schedule**

<b>Days</b>	<b>Topic</b>
Day 01	Introduction to Non Destructive Testing
	Principle of Liquid Penetrant test (PT) & Applications
	Principle of Magnetic Particle Test (MT) & Applications
	Practical demonstration of PT& MT
Day 02	Principle of Ultrasonic Test (UT) & Applications
	Principle of Radiographic Test (RT) & Applications
	Practical Demonstration of UT & RT film review at M/s. Trinity NDT, Peenya.
	Concluding Session