Greetings from CMTI,

We are pleased to inform you that we are conducting a 03 days Non-Residential Training programme on **"Advanced Engineering Materials Testing & Characterization", Course code: 1308**

Highlights / Overview of the Program:

Development of Advanced Engineering Materials signifies the need for testing and characterization for their deployment in Engineering Applications. The course comprises of characterization and testing of engineering materials by Wavelength Dispersive X-ray Spectrometer (WDXRF), X-ray Diffractometer (XRD), Carbon Sulfur & Oxygen Nitrogen Hydrogen Analyzers as per standard requirements. Detailed mechanical characterization of materials including Hardness, Tensile and Impact strength will be discussed. Nondestructive evaluation of weldments and forgings by Phased Array Ultrasonic Testing (PAUT) will be detailed. The salient features of the advanced systems will be demonstrated and experience sharing on the technical implication with respect to the usage of the materials in engineering applications will be emphasized.

Target Participants:

Testing, Quality & Inspection Engineers

Programme Schedule

It is 03 day Non-Residential Training Programme scheduled during **14th – 16th December 2026.** The Programme will be held at Central Manufacturing Technology Institute, Bengaluru

Participation Fees

Rs. 11,700/- plus GST @ 18%*, per participant. This includes Course Kit, 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 to17:00 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:
Mr. Arun Kumar J G, Joint Director & Centre Head – AEAMT,
09449842686 / 78 Fax: (080) 2337 0428
E-mail– training@cmti.res.in

CENTRAL MANUFACTURING TECHNOLOGY INSTITUTE

Tumkur Road, Bengaluru 560 022

Training Programme
On
"Advanced Engineering Materials Testing & Characterization"

Tentative Programme Schedule

Days	Topic
Day 01	Significance of Engineering Materials Testing & Characterization
	Chemical composition testing of Metallic Materials by OES
	Inorganic material characterization by CS & ONH analysers
	DEMO on Advanced Materials Testing (CS, ONH & OES)
Day 02	Materials composition analysis by WDXRF – Principle & application perspectives
	Materials characterization by X-ray Diffractometer – Principle & Applications
	DEMO on XRD
	DEMO on WDXRF
Day 03	Introduction to Optical Microscopy, Mechanical Testing & Phased Array Ultrasonic Testing
	Practical demonstration of Mechanical Testing & Ultrasonic Testing of Materials
	Concluding Session

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