Greetings from CMTI

We are pleased to inform you that we are conducting a 02 day Non-Residential Training programme on **"Welding Technologies for Vacuum Based Systems – TIG, Electron Beam, Nitrogen Parallel Seam Sealer", course code: 3102**

Highlights / Overview of the Program:

- Participants will gain insights into material selection, surface preparation, and welding processes such as TIG welding, electron beam welding, and laser welding, which are critical for achieving high vacuum integrity.
- The course will also cover the common weld defects, Surface , sub-surface and volumetric defects, that can come up during welding.
- These defects include porosity, spatter, surface crack, inclusions, incomplete fusion, blow holes, incomplete penetration, etc. understand their causes, and implement effective corrective and preventive measures.
- An information on various destructive and non-destructive techniques available to characterize the defects.
- Through interactive sessions, practical demonstrations, and case studies, attendees will develop a strong foundation in vacuum welding technology, ensuring their ability to apply best practices in industries such as aerospace, semiconductors, scientific instrumentation, and nuclear research.

Target Participants:

This Training is ideal for Engineers, Technicians, and Professionals involved in the design, fabrication, and maintenance of vacuum-based systems.

Programme Schedule

It is 02 day Non Residential Training Programme scheduled during **07th - 08th September 2026.** The Programme will be held at Central Manufacturing Technology Institute, Bengaluru.

Participation Fees

Rs. 12,000/- 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 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

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, aravinda@cmti.res.in

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**

CENTRAL MANUFACTURING TECHNOLOGY INSTITUTE

Tumkur Road, Bengaluru 560 022

Training Programme
On
"Welding Technologies for Vacuum Based Systems – TIG, Electron Beam, Nitrogen Parallel Seam Sealer"

Tentative Programme Schedule

Days	Topic
Day 01	Introduction to Welding
	Basics of Welding Methodologies
	Current trends in Welding for Industries
	Practical Session: Hands-on Welding
Day 02	Advanced Welding Techniques: For Semiconductors
	Weld Characterization and defect Inspection
	Practical Session & lab Visit: E- beam Welding

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