Greetings from CMTI

We are pleased to inform you that we are conducting a 02 day Non-Residential Training programme on **"Basic Course on Single Point Diamond Turning (SPDT)", course code 0560**

Highlights / Overview of the Program:

Single point Diamond Turning (SPDT) is an ultra precision machining technology. SPDT requirements are increasing day by day to meet the demands in the country for production of ultra precision components having optical quality. CMTI with its decades of expertise in SPDT machine and process developments, has tailored this basic course on SPDT, to provide a classroom teaching to engineers and operators to understand the basics of SPDT machine and its process for effective operation of the machine. In this course, topics related to the SPDT technologies for operation & characterizations of SPDT components are covered.

This course emphasizes on:

- Introduction to SPDT
- SPDT machine – Technology, features & operation
- SPDT Process technology – Tool parameters, Tool setting and Process parameters
- Laboratory Demonstration of SPDT process and tool setting
- Machining Non-rotationally symmetric surfaces – Diffsys,Fast Tool Servo
- Laboratory Demonstration of Fast Tool Servo
- Metrology of SPDT components – Dimension, Form & Surface Finish
- Demonstration on characterization of SPDT components

Target Participants:

SPDT machine operators and engineers of Electro-optics industry, LED and lighting mold manufacturers, ophthalmic industries, strategic sectors, precision manufacturing industries.

Programme Schedule

It is 02 day Non Residential Training Programme scheduled during **26th– 27th September 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 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:
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
"Basic Course on Single Point Diamond Turning (SPDT)"
Tentative Programme Schedule

Days	Particulars
Day 01	Introduction to Single Point Diamond Turning and Applications
	SPDT Machine – Technology & Features
	SPDT Tool Setting Process Methodology
	Demonstrations on Single Point Diamond Turning
Day 02	SPDT Toolings – Diamond Tools & Work Holding Fixtures
	SPDT – Process Technology (Non-ferrous, IR materials, Polymers)
	Fast Tool Servo Machining
	SPDT Metrology & Optical Characterization Techniques
	Demonstrations on SPDT Characterization Techniques
	Concluding Session

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