

Greetings from CMTI

We are pleased to inform you that we are conducting a 03 day Non-Residential Training Programme on **"Single Point Diamond Turning (Machine Technology & Characterization Techniques)"**, course code: 2101

Highlights / Overview of the Program:

- 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
- Introduction to Freeform machining - 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 03 day Non Residential Training Programme scheduled during **22nd – 24th April 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, working veg lunch, mid session 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**

CENTRAL MANUFACTURING TECHNOLOGY INSTITUTE

Tumkur Road, Bengaluru 560 022

Training Programme

On

“Single Point Diamond Turning (Machine Technology & Characterization Techniques)”

Tentative Programme Schedule

Days	Particulars
Day-1	Registration & CMTI Introduction
	Introduction to Single Point Diamond Turning and Applications
	CNC Turning, Machine Construction, NC programming
	SPDT Machine - Technology & Features
	Lab Visit / Demonstration: @ CMF Workshop Machine Construction of Turning Centres
Day-2	Surface Metrology of SPDT Components (Contact & Optical Characterization Techniques)
	SPDT Toolings - Diamond Tools & Work Holding Fixtures
	SPDT Tool Setting Process Methodology
	Lab Visit / Demonstration: @ MNTM Workshop Tool setting & Flat Mirror machining on Single Point Diamond Turning
Day-3	SPDT - Process Technology (Non-ferrous, IR materials, Polymers)
	Ultra Precision Machining of Optical Surfaces: Hybrid / Compound Diamond Machining
	Fast Tool Servo & Slow Tool Servo Machining & Video Demonstrations
	Lab Visit / Demonstration: @ MNTM Metrology Lab SPDT Characterization Techniques Using Form Talysurf & Roughness Measurement.
	Lab Visit / Demonstration: @ NMTC Metrology Lab SPDT Characterization Techniques Using a Confocal Microscope and an Optical Profiler.