

On

Single Point Diamond Turning (Machine Technology & Characterization Techniques)

Course Code:2101

29th - 30th May 2025

Key Takeaways

- Comprehensive Understanding of SPDT
- SPDT Machine Technology and Operation
- Process Technology Insights
- Machining Demonstrations
- Introduction to Freeform Machining
- Metrology and Component Characterization
- Industry-Relevant Skill Development



CONTACT US



9449842686/78



training@cmti.res.in

CENTRAL MANUFACTURING TECHNOLOGY INSTITUTE
Tumkur Road, Bengaluru - 560 022

About AEAMT

Centre for Skill Development, is a flagship initiative of CMTI, aims to enhance the knowledge and skills of practicing engineers, create job ready engineers to the Indian Manufacturing sector and to bridge the gap between industry and academia.

Focused Area / Objectives :

- 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

Targeted Participants :

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

Programme Co-Ordinator :

Mr. Gopi Krishna S, has specialized in the field of Ultra-Precision Engineering and systems development at Central Manufacturing Technology Institute (CMTI). He has 15+ years of rich technical experience and expertise in Advanced manufacturing Product developmental projects in Mechanical Engineering Domain and involved in numerous indigenous product developmental activities. He has completed his Bachelor of Engineering in Mechanical Engineering and MTech in Computer Integrated Manufacturing (CIM) and since forth working in CMTI as Scientist.

He has contributed his expertise and skills in handling and realization of complex research and developmental products involving from theoretical design calculations, Conceptual and Engineering Design, Co-ordination with precision manufacturing and inspection metrology teams, development and deployment of precision assembly and integration techniques, ultra precise testing methodologies in product validation down to nanometer accuracies. He along with his team at CMTI, has successfully developed commercial ultra precision products (TRL 7 to 8 levels), which are indigenous developments of the country. He is He is project co-ordinator

He has guided MTech/PG Diploma project students for CMTI's research activities. He has delivered number of lectures on Single Point Diamond Turning, GD&T topics & awareness lectures on Smart Manufacturing at various forums & at CMTI's training programs for industrial participants, academicians and researchers.

Programme Schedule :

It is a **Two (02) day** Non - Residential Training Programme scheduled during **29th – 30th May 2025**. The Programme will be held at Central Manufacturing Technology Institute, Bengaluru.

Participation Fees :

Rs. 7,800/- plus GST @ 18%***, per participant. This includes Course Kit, 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 Bengaluru 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 :

- 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.
- Individuals/ Companies interested in participation are requested to fill in the enclosed Enrollment Form and submit at the earliest.
- Participants are advised to proceed for the programme only after the nominations / Programme confirmed by us (by Fax / Letter / Phone / E-Mail).
- Participants should report at CMTI on the day of commencement of the course. Participants are advised to reach Bangalore the previous day, evening/ night.
- Course will be conducted from 09:00 to 17:00 hrs. Participants may plan their return journey accordingly.
- Participants will be given Certificate after the completion of the Training Programme
- Enclosed are the tentative programme contents for ready reference

- GST No. to be shared while sending your nomination / Registration (If a company is exempted from GST they have to provide GST Exemption certificate).
- 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**

Tentative Programme Schedule

Days	Topics
Day 1	Introduction to Single Point Diamond Turning and Applications
	SPDT Machine – Technology & Features
	SPDT Tool Setting Process Methodology
	SPDT Tool Setting Process Methodology
Day 2	SPDT Toolings – Diamond Tools & Work Holding Fixtures
	SPDT – Process Technology (Non-ferrous, IR materials, Polymers)
	Fast Tool Servo Machining
	SPDT Metrology & Optical Characterization Techniques
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	Concluding Session

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