

Greetings from CMTI

We are pleased to inform you that we are conducting a 03 days Non-Residential Training programme on **"Industry 4.0 & Smart Manufacturing Systems", course code 0760**

Highlights / Overview of the Program:

Industry 4.0 is the current trend in industries that focus on data exchange and automation in manufacturing. This emphasize on predicting the process characteristics by acquiring the data, digitizing, sharing and analysing this data to generate an information that can be shared with different stakeholders in the entire value chain of product manufacturing. This course aims to provide a brief overview of Industry 4.0 enabled technologies, implementation challenges and few case studies. The course covers theoretical aspects as well as demo sessions.

Course contents:

- Introduction to Smart Manufacturing and Industry 4.0
- Industrial Internet of Things and Big Data Analytics
- Industry 4.0 implementation challenges and case studies
- Smart machines and intelligent machining
- Smart Sensors and Smart Tooling
- Digital and Smart Factories

Target Participants:

Engineers / Managers from MSMEs, Academia

Programme Schedule

It is 03 days Non Residential Training Programme scheduled during **18th –20th December 2023**. The Programme will be held at Central Manufacturing Technology Institute, Bangalore

Participation Fees

Rs. 11,700/- 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 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**

For further enquiries / registration / nominations, please contact:
Mrs. Asha R Upadhyaya, Scientist – F & 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
'Industry 4.0 & Smart Manufacturing Systems'

Tentative Programme Schedule

Days	Topics
Day 1	Introduction to Smart Manufacturing and Industry 4.0 & Industry 4.0 implementation challenges
	Introduction to Smart Manufacturing and Industry 4.0 & Industry 4.0 implementation challenges
	Digital and Smart Factories
	Case studies -2 & Demo -2 (Conversion of Legacy machine tool to smart Machine)
	Demo -3 (Smart Metrology)
	Condition based Monitoring & Machine Health Monitoring
Day 2	Smart Sensors and controls
	Precision & Smart Metrology
	Big Data Analytics
	Data Acquisition for IIoT & Case studies -1 & Demo -1 (Conversion of Legacy Additive machine to smart Machine)
Day 3	Smart Machine tools & Intelligent Machining
	Machine Connectivity and its Applications
	Lab Visits
	Concluding Session