

**Short Term Courses**

**COURSES FOR DIPLOMA/DEGREE IN MECHANICAL ENGG. OR EQUIVALENT**

COURSE NAME	DURATION	COURSE FEE
Auto CAD (Mechanical)	1 Month	₹7,000/-
CATIA	1 Month	₹8,000/-
Creo	1 Month	₹8,000/-
UNIGRAPHICS	1 Month	₹8,000/-
SOLIDWORKS	1 Month	₹8,000/-
MASTER CAM	1 Month	₹8,000/-
CNC Milling & Turning	1 Month	₹8,000/-
ANSYS	2 Weeks	₹8,000/-
3D Printing & Additive Manufacturing	2 Weeks	₹8,000/-

**COURSES FOR DIPLOMA/DEGREE IN ELECTRICAL/ ELECTRONICS ENGG. OR EQUIVALENT**

COURSE NAME	DURATION	COURSE FEE
PLC	1 Month	₹8,000/-
VLSI	1 Month	₹8,000/-
SCADA	1 Month	₹8,000/-
Advanced Embedded System	1 Month	₹8,000/-
ROBOTICS	1 Month	₹8,000/-
Lab View	1 Month	₹8,000/-
E.CAD	1 Month	₹7,000/-

**COURSES FOR DIPLOMA/DEGREE IN CIVIL ENGG.**

COURSE NAME	DURATION	COURSE FEE
Auto CAD (Civil)	1 Month	₹7,000/-
STAAD PRO	1 Month	₹8,000/-
3Ds Max	1 Month	₹8,000/-
REVIT	1 Month	₹8,000/-

**COURSES FOR ANY GRADUATE**

COURSE NAME	DURATION	COURSE FEE
MAT LAB	2 Weeks	₹8,000/-
Hardware Networking	1 Month	₹5,500/-
.NET	1 Month	₹5,500/-
Core JAVA	1 Month	₹5,500/-
Advanced JAVA	1 Month	₹5,500/-
C	1 Month	₹3,500/-
C++	1 Month	₹3,500/-
Entrepreneurship Skill Development Program	2 Weeks	₹2,500/-
Internet of Things	2 Weeks	₹8,000/-

**ALL THE ABOVE SHORT TERM COURSE START ON 1ST WORKING DAY OF EVERY MONTH**



**CERTIFICATE COURSE IN MACHINING (CCM)**



**MSME TOOL ROOM, BHUBANESWAR**

Micro, Small & Medium Enterprises, A Govt. of India Society  
B-36, Chandaka Industrial Area, Near Infocity  
Bhubaneswar-751024, Odisha, India

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**CENTRAL TOOL ROOM & TRAINING CENTRE  
Bhubaneswar, Odisha**

AS 9100,  
ISO 9001, 14001, 29990, 50001 &  
OHSAS 18001 CERTIFIED

## NSQF Complied Long Term Courses

COURSE NAME		DURATION	COURSE FEE
<b>COURSES FOR 10TH PASS OUT</b>			
Diploma in Tool & Die Making	DTDM	4 Year	₹19,000/- (per Semester)
Diploma in Mechantronics	DIM	3 Year	₹19,000/- (per Semester)
ITI Machinist	ITIM	2 Year	₹28,000/- (per Year)
ITI Fitter	ITIF	2 Year	₹28,000/- (per Year)
ITI Electrician	ITIE	2 Year	₹28,000/- (per Year)
Condensed Course in Tool & Die Making	CTDM	1 Year	₹66,000/-
Certificate Course in CNC Turning & Milling	CCTM	1 Year	₹32,000/-
<b>COURSES FOR UNDER MATRIC</b>			
Certificate Course in Machine Operation	CCMO	1 Year	₹18,000/-
<b>COURSES FOR ITI STUDENTS</b>			
Certificate Course in Advance Machining	CCAM	1 Year	₹32,000/-
Advance Certificate Course in Machine Maintenance	ACCMM	1 Year	₹32,000/-
Advance Certificate Course in CNC Machining	ACCCM	1 Year	₹34,000/-
Advance Certificate Course in Welding Technology	ACCWT	1 Year	₹50,000/-
Certificate Course in Machining	CCM	6 Months	₹22,000/-
Certificate Course in Fitting & Rigging	CCFR	6 Months	₹32,000/-
Suryamitra	-----	1.5 Months	₹10,000/-
<b>COURSES FOR DIPLOMA IN MECHANICAL ENGG. OR EQUIVALENT</b>			
Post Diploma in Tool & Die Manufacturing	PDTDM	1 Year	₹54,000/-
Post Diploma in CAD/CAM	PDCC	1 Year	₹54,000/-
Advance Diploma in CNC Programming Techniques & Practice	ADCNC	6 Months	₹34,000/-
<b>COURSES FOR DEGREE IN MECHANICAL ENGG. OR EQUIVALENT</b>			
Post Graduate Diploma in Tool Design & CAD/ CAM	PGTD	1 Year	₹60,000/-
Post Graduate in Aerospace Manufacturing	PGAM	1 Year	₹60,000/-
Master Certificate course in CAD / CAM	MCC	6 Months	₹36,000/-
<b>COURSES FOR DIPLOMA IN ELECTRICAL/ELECTRONICS ENGG. OR EQUIVALENT</b>			
Advanced Diploma in Machine Maintenance & Automation	ADMMA	6 Months	₹34,000/-
Advanced Embedded Technology	AET	6 Months	₹34,000/-
Certificate Course in Electrical Equipment Repair & Maintenance	CCERM	6 Months	₹34,000/-
Post Diploma in Industrial Automation & Robotics	PDIAR	1 Year	₹60,000/-
<b>COURSES FOR DEGREE IN ELECTRICAL/ELECTRONICS ENGG. OR EQUIVALENT</b>			
Master Certificate Course in Automation & Process Control	MCCAPC	6 Months	₹36,000/-
<b>COURSES FOR DIPLOMA IN MECHANICAL/ ELECTRICAL/ELECTRONICS ENGG. OR EQUIVALENT</b>			
Post Diploma In Mechatronics	PDIM	1 Year	₹54,000/-
<b>COURSES FOR DIPLOMA/DEGREE IN CIVIL ENGG.</b>			
Post Diploma in Structural Design & Analysis	PDSDA	1 Year	₹54,000/-
Advance Diploma in Structural Design & Analysis	ADSDA	6 Months	₹34,000/-
<b>COURSES FOR ANY GRADUATE</b>			
Advance Certificate Course in Inspection & Quality Control	ACCIQ	6 Months	₹22,000/-
Advance Diploma in Computer Hardware & Networking Management	ADCHNM	6 Months	₹34,000/-
Advanced Certificate Course in Software Application	ACCSA	6 Months	₹22,000/-

## CERTIFICATE COURSE IN MACHINING (CCM)

### Introduction to CTTC:

MSME Tool Room Bhubaneswar (Central tool Room & Training Centre) established in the year 1991, Today stands as the premier Tool Room & Training Centre in India. Under the Technical Co-operative programme between Government of India and Govt. of Denmark the Centre was established as a Govt. of India Society. The management of affairs of the Centre rests with the Governing Council constituted by Govt. of India. Additional Secretary & Development Commissioner (MSME), Govt. of India, is the President of the Society & Chairman of the Governing Council.

MSME Tool Room –Bhubaneswar is on the way of achieving its set goal with its extension Centre at Rayagada and Kalinga nagar, Odisha. It believes its bench marking its standards not only against the tool room and training centers in India and the world. The zeal and experience and commitment of employees has been pushing the Centre to achieve the greater height of quality industry oriented training programs for different levels and different discipline students and production of highly precision components for tool and die making, automobile and aerospace components.

### Objectives of this course

Learners who attain this qualification are competent in Certificate Course In Machining and can get a job in a captive or commercial Tool Room or become an entrepreneur.

- Qualifying learners attain skills to work in conventional like Turning, Milling, and grinding and tool assembly.
- Qualified learners are capable of working in general engineering industry in their machine shop.
- Participants will be able to work on different types of tools, can able to do the maintenance and trouble shoot the problems.

### Who can avail this opportunity:

ITI machinist equivalent is eligible for taking admission. The company sponsored candidates will be preferred. Unemployed /fresh diploma holders and those final year students awaiting result can be apply.

**NSQF Qualification:** Level-5

**Duration:** 6 month (780 Hours)

**Occupation of Qualification:** Entrepreneur/ Skilled Technician/Technician/Machinist

Progression of Occupation from Qualification: After completion of course and after 6 months of field experience the trainee can work as skilled technician and then after that 5 years of experience, the person can work as a supervisor.

### Fee:

₹ 22,000/-per participant to be paid in the following instalments.

At the time of registration - ₹ 1,000/-

First Instalment - ₹ 10,000/- (At the time of admission)

Second Instalment	-	₹ 11,000/- (After completion of three month)
Insurance Fee	-	₹ 300/- (At the time of admission)
NSQF Assessment Fee	-	₹ 500/- (At the time of admission only for general)

22.5% seats are reserved for SC/ST candidates for whom no course fee will be charged subject to production of two photocopies of caste certificate duly attested by Greeted Officer. However, all other fees/deposits is to be paid in case of admission. Caste Certificate in Original from competent authority is to be produced for verification at the time of admission which may be revived from the issuing authority.

### COURSE CONTENT :

Title of component	Estimated size (learning hours)
Production Technology	560
Engineering Drawing	30
Engineering Metrology	30
Fundamental of Computer	35
Auto CAD	95
Soft Skill	30
<b>TOTAL</b>	<b>780HRS</b>

### ELIGIBILITY TO APPEAR IN THE EXAM:

Minimum 80% attendance is compulsory for the students to appear for the assessments.

### MARKING SCHEME:

Sr. No.	Method of Assessments	Weightage (Max. marks)	Evaluator
1	Written Test	20	Trainer + Course coordinator + Examiner nominated by Examination Cell of CTTC, Bhubaneswar
2	Practical Test	40	
3	Viva-voce	10	
4	Class/Workshop/Lab performance	10	
5	Project	20	
<b>TOTAL</b>		<b>100</b>	

### PASSING MARKS:

Passing criteria is based on marks obtained in attendance record, term works, assignments, practical performance, viva or oral exam, module test, practical exam and final exam.

Minimum Marks to pass practical exam – 60%

Minimum Marks to pass theory exam – 40%

### DETAILED COURSE PLAN FOR 6 MONTHS:

Course Name	Contents (chapters/topics)
<b>Production Technology</b>	Workshop safety rules. Use of personal protective equipment (PPE). Cutting tool materials. Parts of lathe machine and their function. Lathe and Lathe operations Milling and Milling Operations Grinding and Grinding operations. De-burring process Cutting Tools Coolants and Lubricants Accessories and Attachments.
<b>Engineering Drawing</b>	Identify types of line, line group, arrow head, type of paper size, title block, out boundary. Demonstrate scale, dimension, dimensioning rules & its use. Demonstrate angle of projection method, orthographic views, Sectioning, its type and application. Use limits, fits and tolerances on the drawing.
<b>Engineering Metrology</b>	Explain standardization of measuring instrument (linear, angular, precision & non precision). Explain Gauges (standard gauge: feeler gauge, radius gauge, screw pitch gauge). Explain Telescopic gauge, slip gauge, standard wire gauge. Demonstrate Limit gauge: plug gauge, thread plug gauge, snap gauge. Demonstrate Ring gauge, thread ring gauge.
<b>MS Office</b>	Explain MS office, by using MS office prepare word document, spread sheet, presentations etc.
<b>AutoCAD</b>	Co-ordinate system, used in AutoCAD. Interface of AutoCAD, mouse function, functional keys, shortcut keys, paper size Window limits, line, construction line, ray, trim, extend, erase. Circle, rectangle, copy, move, and offset, rotate. Array, mirror, scale, stretch, polyline, polygon, and arc. Spline, ellipse, revision cloud, and region, explode, join, break, and break at a point. Point, point style, divide, measure, fillet, chamfer, blend curve Hatch, gradient, details of sectional view. Text, Mtext, text style, arc aligned text, mirror text Block, Wblock, insert block, edit block Identify dimension toolbar, Dimension style & GD&T symbols Plotting and printing drawing.
<b>Soft Skill</b>	Demonstrate Communication Skills, use language as a tool of communication Demonstrate and improve the participant's English language skills. Demonstrate Personality Development Demonstrate Full Dress Rehearsal.

### How to apply:

Application form attached with the broacher be filled up & mailed to Sr. Manager (Training) along with a D/D of ₹1000.00 on or before \_\_\_\_\_ In the event of selection this money will be adjusted in the course fee otherwise refund will be given on or before one week of course starts. Admission notification will be issued immediately after the last date of receipt of application and selected candidates will be required to pay fees within 15 days on or before \_\_\_\_\_ and report for training from \_\_\_\_\_.

### Hostel Accommodation:

Dormitory accommodations can be arranged in the CTTC guest house which can be booked on advanced request. The accommodation charges will be ₹1500.00 per month per bed.

### Uniform:

The candidates will have to get uniforms, dress stitched at their own cost as per the colour & design specified by the center.

### Certification:

After successful completion of training main certificate with grade, mark sheet & project certificate will be issued separately to the trainees.

### Placement Help:

CTTC placement cell will make efforts to contact & invite companies to conduct campus interviews; however, no guarantee can be given for placement/employment. Interested trainees can be registered by paying ₹2,000/- each towards placement registration at start of the programme and in case of trainee is not successful from getting placement he/she may be refunded ₹1,000/-.

### GENERAL RULES & REGULATIONS FOR TRAINEES:

- CTTC reserves the right to reject any application without assigning any reason. Incomplete applications are liable to be rejected.
- Registration Fee is Non Refundable, in case any candidate cancels his admission for any reason.
- Course Fee once paid will not be refunded & Registration/ Course Fee is not transferrable.
- Insurance & other charges as specified for the course to be paid but the trainee in addition to the course fee as applicable.
- All the trainee will be ensure discipline within the campus.
- Trainee shall be required to wear uniform & shoes as prescribed by the institute and possess I-Card compulsory during training.
- Mobile Phones, Pen Drives, CD any other related items are not permitted inside CTTC premises.
- Regular attendance will have to be maintained by the trainee as per course schedule & 80% attendance is compulsory in all subjects individually.

- Trainees will abide by the examination rules and regulations displayed on Notice Board of CTTC and as amended.
- Leave without information/ permission will not be entertained.
- Trainees going on leave or home during vacation should inform course coordinator compulsorily.
- No trainee shall be organize/ conduct any meeting within the campus.
- The Machines/ Equipment/ Furniture must be handled carefully. No act of damage to CTTC property shall be carried out by the trainee, any loss or damage to property, including water & electricity usage.
- Smoking & chewing tobacco, possessing or drinking alcoholic beverages in any form is strictly prohibited within CTTC premises.
- Ragging is strictly prohibited in the premises.
- Writing any Comment/ Remarks/ Name on doors, walls, toilet, and notice board is strictly prohibited.
- Violation of above & any other Rules, Regulations, Disciplines and Conduct are liable for disciplinary action.