



MSME-TOOL ROOM, HYDERABAD

CENTRAL INSTITUTE OF TOOL DESIGN



(A Govt. of India Society, Ministry of MSME, Govt. of India)

(An ISO 9001-2015, ISO 14001-2015, ISO 50001-2018 Certified Institution)

TOOL DESIGN and CAD/CAM/CAE COURSES

NSQF COMPLIANCE COURSES

1. COURSE NAME: JUNIOR DESIGNER CAD/CAM

Duration: 600Hrs/6Months

NSQF Level: 4.5

[Existing Course Name: MASTER CERTIFICATE COURSE IN CAD CAM (MCCCC)]

Course Content:

1. Create & Modify Part Model using CAD Software-**AutoCAD& Solidworks**
2. Generate Part Program Using CAM Software (CAM)- **NX- CAD/CAM**
3. Analyze Part Model-**ANSYS**
4. Design Surfaces using Higher end CAD Software-**CREO PARAMETRIC & CATIA**
5. Generate CNC Program
6. Employability Skills
7. On Job Training

Course Fees:

Rs. 29,400/-+Registration fee of Rs.1,000/- for General categories
(Payment can be made in 3 installments)

For SC/ST Candidates fee waiver will be provided as per Govt. of India norms,
Registration Fee of Rs.1000/-to be paid

Eligibility:

Diploma/Degree in Mechanical/Production/Tool/Mould Making/Automobile or equivalent

2. COURSE NAME: ASST. OPERATOR - CNC MILLING (TOOL ROOM)

Duration: 600Hrs/6Months

NSQF Level: 3

[Existing Course Name: CERTIFICATE COURSE IN CNC MILLING (CCCM)]

Course Content:

1. Assist in Operation of CNC Milling Machine- **Theory& Practical**
2. Demonstrate the working Principle of Machine Tools-
Conventional Milling machine, Basics of workshop Calculation& Quality Assurance
3. Checking dimensions of CNC machined Part-**Metrology**
4. Create Part Drawing using Auto-CAD
5. Employability Skills
6. On Job Training

Course Fees:

Rs. 29,400/-+Registration fee of Rs.1,000/-for General categories
(Payment can be made in 3 installments)

For SC/ST Candidates fee waiver will be provided as per Govt. of India norms,
Registration Fee of Rs.1000/-to be paid

Eligibility:

SSC passed or its equivalent. Minimum age 15 year

3. COURSE NAME: TECHNICIAN -CNC MACHINING

Duration: 600Hrs/6Months

NSQF Level: 4

[Existing Course Name: ADVANCE CERTIFICATE COURSE IN CNC MACHINING (ACCCM)]

Course Content:

1. Fundamentals of CNC Technology
2. Create CNC Programs and carry out CNC Machining operations
3. Create Part drawing using CAD Software- **Auto CAD**
4. Generate part Programs using CAM Tools- **Master CAM**
5. Employability Skills
6. On Job Training

Course Fees:

Rs. 29,400/-+Registration fee of Rs.1,000/-for General categories

(Payment can be made in 3 installments)

For SC/ST Candidates fee waiver will be provided as per Govt. of India norms,

Registration Fee of Rs.1000/-to be paid

Eligibility:

ITI/Diploma or its equivalent. Minimum age 17 year

4. COURSE NAME: CNC PROGRAMMER -TOOL ROOM

Duration: 600Hrs/6Months

NSQF Level: 4.5

[Existing Course Name: ADVANCE DIPLOMA IN CNC PROGRAMMING TECHNIQUES AND PRACTICES (ADCNC)]

Course Content:

1. Understand the Concept of Production Process
2. Read, Interpret and Create Part Drawing using Auto-CAD
3. Create, Generate and Execute CNC Program for Manufacturing Process
4. Check and Inspect dimensions of machined Part using various Measuring instrument
5. Employability Skills
6. On Job Training

Course Fees:

Rs. 29,400/-+Registration fee of Rs.1,000/-for General categories

(Payment can be made in 3 installments)

For SC/ST Candidates fee waiver will be provided as per Govt. of India norms,

Registration Fee of Rs.1000/-to be paid

Eligibility:

Diploma/Degree in Mechanical/Production/Tool/Mould Making/Automobile or equivalent

5. COURSE NAME: ASSISTANT OPERATOR- CNC TURNING -TOOL ROOM

Duration: 600Hrs/6Months

NSQF Level: 3

[Existing Course Name: CERTIFICATE COURSE IN CNC TURNING (CCCT)]

Course Content:

1. Assist in Operation of CNC Lathe Machine
2. Demonstrate the working Principle of Machine Tools
3. Checking dimensions of CNC machined Part
4. Create Part Drawing using Auto-CAD
5. Employability Skill
6. On Job Training

Course Fees:

Rs. 29,400/-+Registration fee of Rs. 1,000/-for General categories
(Payment can be made in 3 installments)

For SC/ST Candidates fee waiver will be provided as per Govt. of India norms,
Registration Fee of Rs. 1000/-to be paid

Eligibility:

SSC passed or its equivalent. Minimum age 15 year

6. COURSE NAME: JR. DESIGNER – TOOL

Duration: 600Hrs/6Months

NSQF Level: 4.5

[Existing Course Name: MASTER CERTIFICATE COURSE IN TOOL DESIGN (MCCTD)]

Course Content:

1. Create & Modify Part Model using CAD Software- **AutoCAD& Solidworks**
2. Create & Modify Part Model and Generate Part Program Using CAD/ CAM Software- **NX- CAD/CAM**
3. Design of Jigs & Fixtures
4. Design of Press Tools
5. Design Of Mould
6. Employability Skills

Course Fees:

Rs. 29,400/-+Registration fee of Rs. 1,000/-for General categories
(Payment can be made in 3 installments)

For SC/ST Candidates fee waiver will be provided as per Govt. of India norms,
Registration Fee of Rs. 1000/-to be paid

Eligibility:

Diploma/Degree in Mechanical/Production/Tool/Mould Making/Automobile or equivalent

7. COURSE NAME: ASST. OPERATOR - CONVENTIONAL MACHINES

Duration: 1200Hrs/1 Year

NSQF Level: 2.5

[Existing Course Name: CERTIFICATE COURSE IN MACHINING (CCM)]

Course Content:

1. Carry out Basic Machining Operation on Conventional Machine
2. Read Simple Part Drawing
3. Perform basic Mathematical calculation for machining
4. Carry out Advance Machining Operation on Conventional Machine
5. Employability Skill
6. On Job Training

Course Fees:

Rs. 40,000/-+Registration fee of Rs.1,000/-for General categories

(Payment can be made in 3 installments)

For SC/ST Candidates fee waiver will be provided as per Govt. of India norms,

Registration Fee of R.s 1000/-to be paid

Eligibility:

SSC passed or its equivalent. Minimum age 15 year

8. COURSE NAME: JR. TECHNICIAN - INSPECTION & QUALITY CONTROL

Duration: 600Hrs/6Months

NSQF Level: 3

Course Content:

1. Create Part Drawing using Auto-CAD
2. Demonstrate the working Principle of Machine Tools
3. Asst. in Checking & Inspection of Part
4. Employability skill

Course Fees:

Rs. 29,400/-+Registration fee of Rs. 1,000/-for General categories

(Payment can be made in 3 installments)

For SC/ST Candidates fee waiver will be provided as per Govt. of India norms,

Registration Fee of Rs. 1000/-to be paid

Eligibility:

SSC passed or its equivalent. Minimum age 15 year

NON-NSQF COMPLIANCE COURSES

1. Course Name: MASTER CERTIFICATE COURSE IN COMPUTER AIDED TOOL ENGINEERING (MCCCAE)

Duration: 600Hrs/6Months

Course Content:

- AutoCAD: 2D Drafting & 3D Modeling
- CREO: Modeling, Surfacing, Assembly & Drafting.
- NX/Unigraphics: Modelling, Surfacing, Assembly, Drafting & Manufacturing.
- ANSYS: Structural, Thermal
- Hypermesh: Shell mesh, Solid Mesh
- SOLIDWORKS: Modelling, Surfacing, Assembly & Drafting.
- Design of Press Tools
- Design of Moulds
- Hands on practice on Conventional and CNC machines
- Entrepreneurship
- Project Work

Course fees:

Rs.30,000/-+Registration fee of Rs.1,000/-for All category candidates
(Payment can be made in 3 installments)

Eligibility:

Diploma/Degree in Mechanical/Production/Tool/Mould Making/Automobile or equivalent
