

Name of ICD Programme: Mechanical Engineering (DME)
Name of Certificate programme: Tool and Die (CTD)

Title of the course : TRADE SPECIFIC TRAINING-1
Subject Code : QPME 201

L	T	P	Credits	Weekly Load
0	0	8	1	8 hrs

COURSE OUTCOMES:

After successful completion of course, the students should be able to

- CO1: Acquire skills in basic lathe operations.
CO2: Acquire skills in basic grinding, chipping and scraping operations.
CO3: Understand the various tool angles of single point cutting tool.
CO4: Acquire skills to inspect and perform quality check.

CO's	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PSO1	PSO2
CO1	3	2	2	1	2	3	3	3	3
CO2	3	3	3	3	2	2	3	3	3
CO3	3	2	2	3	2	2	3	3	3
CO4	3	2	3	3	2	2	3	3	3
Average	3	2.25	2.5	2.5	2	2.25	3	3	3

List of Activities

1. Perform chamfering operation on lathe machine.
2. Perform knurling operation on lathe machine.
3. Perform thread cutting operation on lathe machine.
4. Perform Parting-off operation on lathe machine.
5. Perform Grooving operation on lathe machine.
6. Design the various tool angles for single point cutting tool.
7. Perform grinding of various tool angles of single point cutting tool.
8. Perform quality check and inspection of produced jobs.

Yashwanth
12/08/26
(Mr. Yashwanth Verma)

Dr. Parvajeet Shukla
12/08/26
(Dr. Parvajeet Shukla)

Dr. Mohd Majid
12/3/26
(Dr. Mohd Majid)

Sh. Jagdish Chandar Yadav, Tech.
13/03/26
(Sh. Jagdish Chandar Yadav, Tech.)

Somraj

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Name of ICD Programme: Mechanical Engineering (DME)

Name of Certificate programme: Tool and Die (CTD)

Title of the course : TRADE SPECIFIC TRAINING-2

Subject Code : QPME 202

L	T	P	Credits	Weekly Load
0	0	8	1	8 hrs

COURSE OUTCOMES:

After successful completion of course, the students should be able to

CO1: Acquire skills in performing operations on milling machine.

CO2: Develop skills in performing operations on shaper.

CO3: Develop skills in performing polishing.

CO4: Acquire skills to inspect and perform quality check.

CO's	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PSO1	PSO2
CO1	3	2	2	3	2	2	3	3	3
CO2	3	2	2	3	2	2	3	3	3
CO3	3	2	2	3	2	2	3	3	3
CO4	3	2	3	3	2	2	3	3	3
Average	3	2	2.25	3	2	2	3	3	3

List of Activities

1. Perform drilling operation on lathe machine
2. Perform up-milling operation on milling machine.
3. Perform down-milling operation on milling machine.
4. Prepare a bolt with hexagonal head.
5. Prepare the rectangular groove using Shaper.
6. Prepare the V-groove using Shaper.
7. Prepare Charpy V-notch specimen.
8. Perform quality check and inspection of produced jobs.

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(Dr. Yogesh Verma)

Dr. Paramjeet Shukla
12/10/26
(Dr. Paramjeet Shukla)

Dr. Mohd Majid
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Jagdish Chandar Yadav
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Name of ICD Programme: Mechanical Engineering (DME)
Name of Certificate programme: Tool and Die (CTD)

Title of the course : TRADE SPECIFIC TRAINING-3
Subject Code : QPME 301

L	T	P	Credits	Weekly Load
0	0	8	1	8 hrs

COURSE OUTCOMES:

After successful completion of course, the students should be able to

- CO1: Acquire skills for writing programme using CNC machine.
- CO2: Acquire skills to perform various operations on CNC machine.
- CO3: Develop skills in preparing the tensile test specimens.
- CO4: Acquire skills to inspect and perform quality check.

CO's	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PSO1	PSO2
CO1	3	1	3	2	2	2	3	3	3
CO2	3	3	3	3	2	3	3	3	3
CO3	3	2	2	3	2	2	3	3	3
CO4	3	2	3	3	2	2	3	3	3
Average	3	2	2.75	2.75	2	2.25	3	3	3

List of Activities

1. Generate the program and perform facing operation on CNC lathe machine.
2. Generate the program and perform turning operation on CNC lathe machine.
3. Generate the program and perform Grooving operation on CNC lathe machine.
4. Generate the program and perform Step turning operation on CNC lathe machine.
5. Generate the program and perform Taper turning operation on CNC lathe machine.
6. Prepare a UTM specimen as per ASTM standard without threads.
7. Prepare a Threaded UTM specimen as per ASTM standard.
8. Perform quality check and inspection of produced jobs.

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