

Assessment Evidence Guide

For

“Dies and Mould Technology”

Level-2

Perform Basic Milling Operations
(Formative Assessment)

1st -5th March 2021



National Vocational & Technical
Training Commission

Title of Qualification: National Vocational Certificate Level 2, in (Dies and Mould Technology) "Machinist"	CS Code:	Level: 2	Version: 01
Competency Standard Title: Perform Basic Milling Operations Personal Health, hygiene and safety Perform Basic Communication skills Carryout General Maintenance	Assessment Date (DD/MM/YY): Assessment Time: 3 Hours		

Candidate Details	Name: Registration/Roll Number:.....
Guidance for Candidate	<p>To meet this standard, you are required to complete the following within the given time frame (for practical demonstration & assessment):</p> <p>Assessment Task 1: Candidate is required to perform following Milling Operations on work piece according to the drawing assign by assessor.</p> <ul style="list-style-type: none"> ○ Face Milling ○ Side Milling ○ Slot Milling ○ Drilling ○ Counter Boring <p>And complete:</p> <ol style="list-style-type: none"> 1. Knowledge assessment test (Written or Oral) 2. Portfolios at the time of assessment (if any)
Minimum Evidence Required	<p>During a practical assessment, under observation by an assessor, you will complete:</p> <p>Assessment Task 1</p> <p>Performance Criteria 1: Select appropriate tool & clamping device according to the job requirement.</p> <p>Performance Criteria 2: Manage the measuring instruments as per job requirement.</p> <p>Performance Criteria 3: Mount the cutter as per standard procedure</p> <p>Performance Criteria 4: Set machine parameters according to the job requirement</p> <p>Performance Criteria 5: Arrange cutting fluid as per job requirement</p> <p>Performance Criteria 6: Verify the dimension of material according to the drawing.</p> <p>Performance Criteria 7: Identify appropriate clamping device and check its alignment on machine table</p> <p>Performance Criteria 8: Clamp the work piece as per requirement</p> <p>Performance Criteria 9: Dial the work piece & ensure final clamping</p> <p>Performance Criteria 10: Perform Face milling as per given instructions</p> <p>Performance Criteria 11: Perform Side milling as per given instructions</p> <p>Performance Criteria 12: Perform Slot milling as per given instructions</p> <p>Performance Criteria 13: Perform Drilling as per given instructions</p>

	<p>Performance Criteria 14: Perform Counter boring as per given instructions</p> <p>Performance Criteria 15: Check quality of the component at suitable intervals</p> <p>Performance Criteria 16: Shut down the machine at safe position after finishing the work</p> <p>Performance Criteria 17: Perform cleaning/deburring of the job using appropriate tool</p> <p>Performance Criteria 18: Final inspection of job according to drawing</p> <p>Performance Criteria 19: Select personal protective equipment in terms of type and quantity according to work orders</p> <p>Performance Criteria 20: Wear, adjust, and maintain personal protective equipment to ensure correct fit and optimum protection in compliance with company procedures</p> <p>Performance Criteria 21: Ensure personal protective equipment is cleaned and stored in proper place</p> <p>Performance Criteria 22: Maintain cleanliness and hygiene as per organizational policy</p> <p>Performance Criteria 23: Comply with Health, hygiene and safety precautions before starting work</p> <p>Performance Criteria 24: Follow organizational Health, hygiene and safety guidelines during work</p> <p>Performance Criteria 25: Place the tools equipment etc. at their prescribed place after completion of work</p> <p>Performance Criteria 26: Use proper disposal hazardous containers for dispose-off hazardous waste as per procedure</p> <p>Performance Criteria 27: Listen to instructions carefully & comply with those instructions</p> <p>Performance Criteria 28: Carefully listen and note down the instructions of Supervisor</p> <p>Performance Criteria 29: Carry out the instructions of the supervisor</p> <p>Performance Criteria 30: Apply appropriate methods and techniques for cleanliness and maintenance of machines & tools</p> <p>Performance Criteria 31: Clean and maintain all workplace tools & machines as per housekeeping checklists or given instructions</p> <p>Performance Criteria32: Prepare checklist for daily cleanliness of the workplace</p> <p>Performance Criteria 33: Place all the tools & material in proper place to ensure safe work</p> <p>Performance Criteria 34: Prepare specific guidelines and checklists to conduct maintenance and housekeeping of machines & tools</p>
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Assessors Judgment Guide (to be completed by the Assessor and signed both by the assessor and the candidate after the assessment)

Candidate Details	Name: Registration/Roll Number: Candidate Signature:
Assessment Outcome	COMPETENT <input type="checkbox"/> NOT YET COMPETENT <input type="checkbox"/> Name of the Assessor: Assessor's code: Signature of the Assessor:

Assessment Summary (to be filled by the assessor)							
Activity	Method					Result	
Nature of Activity	Written	Oral	Observation	Portfolio	Role Play	Competent	Not Yet Competent
Practical Skill Demonstration			✓				
Knowledge Assessment	✓	✓					
Other Requirement							

Each Assessment Task (with performance criteria)				
Assessment Task 1		Description of assessment task 1 Candidate is required to perform following Milling Operations on work piece according to the drawing assign by assessor. <ul style="list-style-type: none"> ○ Face Milling ○ Side Milling ○ Slot Milling ○ Drilling ○ Counter Boring 		
During the practical assessment, candidate demonstrated the following:		Yes	No	Remarks
1.	Select appropriate tool & clamping device according to the job requirement			
2.	Manage the measuring instruments as per job requirement			
3.	Mount the cutter as per standard procedure			
4.	Set machine parameters according to the job requirement			
5.	Arrange cutting fluid as per job requirement			
6.	Verify the dimension of material according to the drawing			
7.	Identify appropriate clamping device and check its alignment on machine table			
8.	Clamp the work piece as per requirement			
9.	Dial the work piece & ensure final clamping			
10.	Perform Face milling as per given instructions			
11.	Perform Side milling as per given instructions			
12.	Perform Slot milling as per given instructions			
13.	Perform Drilling as per given instructions			
14.	Perform Counter boring as per given instructions			
15.	Check quality of the component at suitable intervals			
16.	Shut down the machine at safe position after finishing the work			
17.	Perform cleaning/deburring of the job using appropriate tool			
18.	Final inspection of job according to drawing			
19.	Select personal protective equipment in terms of type and quantity according to work orders			
20.	Wear, adjust, and maintain personal protective equipment to ensure correct fit and optimum protection in compliance with company procedures			
21.	Ensure personal protective equipment is cleaned and			

	stored in proper place			
22.	Maintain cleanliness and hygiene as per organizational policy			
23.	Comply with Health, hygiene and safety precautions before starting work			
24.	Follow organizational Health, hygiene and safety guidelines during work			
25.	Place the tools equipment etc. at their prescribed place after completion of work			
26.	Use proper disposal hazardous containers for dispose-off hazardous waste as per procedure			
27.	Listen to instructions carefully & comply with those instructions			
28.	Carefully listen and note down the instructions of Supervisor			
29.	Carry out the instructions of the supervisor			
30.	Apply appropriate methods and techniques for cleanliness and maintenance of machines & tools			
31.	Clean and maintain all workplace tools & machines as per housekeeping checklists or given instructions			
32.	Prepare checklist for daily cleanliness of the workplace			
33.	Place all the tools & material in proper place to ensure safe work			
34.	Prepare specific guidelines and checklists to conduct maintenance and housekeeping of machines & tools			
Competent <input type="checkbox"/>		Not Yet Competent <input type="checkbox"/>		