

Assessment Evidence Guide

For

“Dies and Mould Technology”

Level-3

Perform Advance Milling Operations
(Formative Assessment)

1st -5th March 2021



**National Vocational & Technical
Training Commission**

Title of Qualification: National Vocational Certificate Level 3, in (Dies and Mould Technology) "CNC Machinist"	CS Code:	Level: 3	Version: 01
Competency Standard Title: Perform Advance Milling Operations Identify and Implement Workplace Policies and Procedures Apply work health and safety practices (WHS) Communicate at workplace	Assessment Date (DD/MM/YY): Assessment Time: 3 Hours		

Candidate Details	Name: Registration/Roll Number:.....
Guidance for Candidate	To meet this standard, you are required to complete the following within the given time frame (for practical demonstration & assessment): Assessment Task 1: Candidate is required to perform following Advance Milling Operations on work piece according to the drawing assign by assessor, including: ○ Pocketing ○ Contouring ○ Drilling and Boring Assessment Task 2: Candidate is required to perform following Advance Milling Operations on work piece according to the drawing assign by assessor, including: ○ Indexing ○ Gear Cuttings And complete: 1. Knowledge assessment test (Written or Oral) 2. Portfolios at the time of assessment (if any)
Minimum Evidence Required	During a practical assessment, under observation by an assessor, you will complete: Assessment Task 1 Performance Criteria 1: Select appropriate tool & clamping device according to the job requirement. Performance Criteria 2: Manage the measuring instruments as per job requirement Performance Criteria 3: Mount the cutter as per standard procedure Performance Criteria 4: Set machine parameters according to the job requirement Performance Criteria 5: Arrange cutting fluid as per job requirement Performance Criteria 6: Verify the dimension of material according to the drawing

	Performance Criteria 7: Identify appropriate clamping device and check its alignment on machine table Performance Criteria 8: Clamp the work piece as per requirement Performance Criteria 9: Dial the work piece & ensure final clamping Performance Criteria 10: Perform pocketing as per given instructions Performance Criteria 11: Perform contouring as per given instructions Performance Criteria 12: Perform Drilling and Boring as per given instructions Performance Criteria 13: Perform deburring of the job using appropriate tool Performance Criteria 14: Inspect the job using appropriate measuring tool Performance Criteria 15: Perform cleaning/deburring of the job using appropriate tool Performance Criteria 16: Inspect the job using appropriate measuring tool Performance Criteria 17: Check quality of the component at suitable intervals Performance Criteria 18: Shut down the machine at safe position after finishing the work Performance Criteria 19: Identify the workplace policy & procedures Performance Criteria 20: Apply appropriate strategies that can be used to measure whether your workplace health and safety obligations are being met Performance Criteria 21: Comply with duty of care requirements Performance Criteria 22: Use personal protective equipment according to safe work practices Performance Criteria 23: Communicate orally and written
--	--

	Assessment Task 2 Performance Criteria 1: Select appropriate tool & clamping device according to the job requirement Performance Criteria 2: Manage the measuring instruments as per job requirement Performance Criteria 3: Mount the cutter as per standard procedure Performance Criteria 4: Set machine parameters according to the job requirement Performance Criteria 5: Arrange cutting fluid as per job requirement Performance Criteria 6: Verify the dimension of material according to the drawing Performance Criteria 7: Identify appropriate clamping device and check its alignment on machine table Performance Criteria 8: Clamp the work piece as per requirement Performance Criteria 9: Dial the work piece & ensure final clamping Performance Criteria 10: Perform Indexing as per given instructions Performance Criteria 11: Perform Gear Cutting as per given instructions Performance Criteria 12: Perform deburring of the job using appropriate tool Performance Criteria 13: Inspect the job using appropriate measuring tool Performance Criteria 14: Perform cleaning/deburring of the job using appropriate tool Performance Criteria 15: Inspect the job using appropriate measuring tool Performance Criteria 16: Check quality of the component at suitable intervals Performance Criteria 17: Shut down the machine at safe position after finishing the work Performance Criteria 18: Communicate procedures to help implement workplace policy Performance Criteria 19: Identify hazards or WHS issues in the workplace to relevant personnel Performance Criteria 20: Assess and control risks according to own level of responsibility, in line with workplace procedures Performance Criteria 21: Use various media to communicate effectively
--	---

Continued on following page

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 ☐ NOT YET COMPETENT ☐ 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 Advance Milling Operations on work piece according to the drawing assign by assessor, including: ○ Pocketing ○ Contouring ○ Drilling and 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 pocketing as per given instructions			
11.	Perform contouring as per given instructions			
12.	Perform Drilling and Boring as per given instructions			
13.	Perform deburring of the job using appropriate tool			
14.	Inspect the job using appropriate measuring tool			
15.	Perform cleaning/deburring of the job using appropriate tool			
16.	Inspect the job using appropriate measuring tool			
17.	Check quality of the component at suitable intervals			
18.	Shut down the machine at safe position after finishing the work			
19.	Identify the workplace policy & procedures			
20.	Apply appropriate strategies that can be used to measure whether your workplace health and safety obligations are being met			
21.	Comply with duty of care requirements			
22.	Use personal protective equipment according to safe work practices			

23.	Communicate orally and written			
Competent ☐		Not Yet Competent ☐		

Assessment Task 2		Description of assessment task 2 Candidate is required to perform following Advance Milling Operations on work piece according to the drawing assign by assessor, including: ○ Indexing ○ Gear Cuttings		
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 Indexing as per given instructions			
11.	Perform Gear Cutting as per given instructions			
12.	Perform deburring of the job using appropriate tool			
13.	Inspect the job using appropriate measuring tool			
14.	Perform cleaning/deburring of the job using appropriate tool			
15.	Inspect the job using appropriate measuring tool			
16.	Check quality of the component at suitable intervals.			
17.	Shut down the machine at safe position after finishing the work.			
18.	Communicate procedures to help implement workplace policy			
19.	Identify hazards or WHS issues in the workplace to relevant personnel			
20.	Assess and control risks according to own level of responsibility, in line with workplace procedures			
21.	Use various media to communicate effectively			
Competent ☐		Not Yet Competent ☐		