

Assessment Evidence Guide

For

“Dies and Mould Technology”

Level-4

**Perform Electric Discharge Machining (EDM)
Sinker Operations
(Formative Assessment)**

1st -5th March 2021



**National Vocational & Technical
Training Commission**

Title of Qualification: National Vocational Certificate Level 4, (Dies and Mould Technology) "CAD/CAM Supervisor"	CS Code:	Level: 4	Version: 01
Competency Standard Title: Perform Electric Discharge Machining (EDM) Sinker Operations	Assessment Date (DD/MM/YY): Assessment Time: 3hrs		

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 (EDM) machining Process on workpiece according to the drawing given by assessor. 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: Switch on the machine Performance Criteria 2: Check die-electric fluid level Performance Criteria 3: Run machine warm-up cycle Performance Criteria 4: Select appropriate tool & clamping device according to the job requirement. Performance Criteria 5: Manage the measuring instruments as per job requirement. Performance Criteria 6: Mount the workpiece on machine table. Performance Criteria 7: Align the workpiece. Performance Criteria 8: Mount electrode on machine head as per requirement Performance Criteria 9: Align the electrode as per requirement. Performance Criteria 10: Set reference for electrode and workpiece. Performance Criteria 11: Set flushing as per job requirement. Performance Criteria 12: Set EDM parameters (on time, off time, ampere, depth, etc.) Performance Criteria 13: Prepare a workpiece by performing EDM machining process as per standard procedure Performance Criteria 14: Check quality of the component at suitable intervals. Performance Criteria 15: Shut down the machine at safe position after finishing the work. Performance Criteria 16: Perform cleaning of the job using appropriate method Performance Criteria 17: Inspect the job using appropriate measuring tool

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 (EDM) machining Process on workpiece according to the drawing given by assessor.		
During the practical assessment, candidate demonstrated the following:		Yes	No	Remarks
1.	Switch on the machine			
2.	Check die-electric fluid level			
3.	Run machine warm-up cycle			
4.	Select appropriate tool & clamping device according to the job requirement.			
5.	Manage the measuring instruments as per job requirement.			
6.	Mount the workpiece on machine table.			
7.	Align the workpiece.			
8.	Mount electrode on machine head as per requirement			
9.	Align the electrode as per requirement.			
10.	Set reference for electrode and workpiece.			
11.	Set flushing as per job requirement.			
12.	Set EDM parameters (on time, off time, ampere, depth, etc.)			
13.	Prepare a workpiece by performing EDM machining process as per standard procedure			
14.	Check quality of the component at suitable intervals.			
15.	Shut down the machine at safe position after finishing the work.			
16.	Perform cleaning of the job using appropriate method			
17.	Inspect the job using appropriate measuring tool			
Competent ☐		Not Yet Competent ☐		