

Written Assessment Guide

For

“Dies and Moulds Technology”

Level 2

(Summative 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: Maintain Personal Health, hygiene and safety Perform Basic Communication skills Perform Basic Computer operations Perform Calculations and Estimation for Mechanical Work Carryout General Maintenance Perform Bench Works Perform Shaper and Planar Operations Perform Basic Grinding Operations Perform Lathe Operations Perform Basic Milling Operations Perform Basic Engineering Drawing	Assessment Date (DD/MM/YY): Assessment Time: 30 min		

Guidance for Candidate	To complete your assessment for this Competency Standard, you need to answer the questions on the following pages successfully.
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Assessors 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:
Written Assessment Outcome	COMPETENT <input type="checkbox"/> NOT YET COMPETENT <input type="checkbox"/> Name of the Assessor: Assessor's code: Signature of the Assessor:

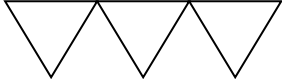
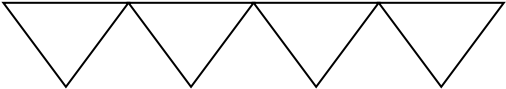
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WRITTEN ASSESSMENT

Question	Candidate's answer
1. State any two types of hand file according to finish /teeth?	A. Rough , Smooth, Dead smooth ,straight teeth, curved teeth etc
2. Enlist three main parts of a drill machine?	A. Bore, Column, Table ,Head, Spindle, Speed change mechanism
3. Ctrl+A in MS word	A. Select whole document
4. What is MS Excel spreadsheet?	A. Spreadsheets present tables of values arranged in rows and columns that can be manipulated mathematically using both basic and complex arithmetic operations and functions.

Question	Candidate's answer
5. Write any five barriers to communication?	<p>A.</p> <ul style="list-style-type: none"> • The use of jargon. Over-complicated or unfamiliar terms. • Emotional barriers and taboos. • Lack of attention, interest, distractions, or irrelevance to the receiver. • Differences in perception and viewpoint. • Physical disabilities such as hearing problems or speech difficulties. • Language differences and the difficulty in understanding unfamiliar accents. • Cultural differences.
<p>6. Red rectangle/square with black x</p> 	A. Harmful
7. What is the difference between Shaper and Planer?	A. In Shaper Ram reciprocate against fixed job and in Planer job reciprocate on platen against fixed tool.
8. State different Single point cutting tools used in Shaper and Planer	A. Left hand tool, Right hand tool, Grooving tool, Slotting tool, etc.
9. Enlist non –verbal communication techniques?	<p>A.</p> <ul style="list-style-type: none"> • Tone of voice • Body language
10. What is the difference between Shaper and Planer?	A. In Shaper Ram reciprocate against fixed job and in Planer job reciprocate on platen against fixed tool.
11. Write down types of Grinding wheel according to Grit size	A. Coarse (10-24), Medium (30-60), Fine (80-180), Very fine (220-1000)

Question	Candidate's answer
12. Classify grinding wheels according to shape of wheel	A. Straight, One/two side recessed, Taper faced, Cup shaped, Cylindrical shaped, Flaring cup, Saucer wheel, segmented wheel, dish wheel, etc.
13. What is housekeeping checklist?	A. A workplace housekeeping checklist is a tool used to ensure that the workplace is well organized, hygienic, and safe for all employees.
14. What is the use of oil in machinery?	A. Oils used to reduce the friction, heat, and wear between mechanical components that are in contact with each other.
15. State the functions of lathe machine?	A. Lathe machine is used for the removal of material from revolving job with single point cutting tool as per required sizes and shapes.
16. What is the function of coolant in lathe machine?	A. Coolant reducing and removing the heat build-up in the cutting zone and workpiece. It provides lubrication to reduce friction between the tool and removal of the chips.
17. Enlist any three types of milling cutter?	A. <ol style="list-style-type: none"> 1. End mill. 2. Face mill. 3. Ball cutter. 4. Slab mill. 5. Side-and-face cutter. 6. Involute gear cutter. 7. Fly cutter. 8. Hollow mill
18. What are different methods of milling?	A. Conventional milling (Up Milling), Climb milling (Down Milling)
19. Which material the milling cutter is usually made of?	A. High speed steel, cemented tipped, super high speed steel etc.

Question	Candidate's answer
20. 	A. Grinding
21. 	A. Lapping