

**Written Assessment Guide**

**For**

**“ Dies and Mould  
Technology”**

**Level-2**

**Perform Lathe Operations**

**1<sup>st</sup> -5<sup>th</sup> March 2021**



**National Vocational & Technical  
Training Commission**

<b>Title of Qualification:</b> National Vocational Certificate Level 2, in (Dies and Mould Technology) "Machinist"	<b>CS Code:</b>	<b>Level:</b> 2	<b>Version:</b> 01
<b>Competency Standard Title:</b> Perform Lathe Operations Maintain Personal Health, hygiene and safety Perform Basic Communication skills	<b>Assessment Date (DD/MM/YY):</b>  <b>Assessment Time:</b> 30 min		

Guidance for Candidate	<b>To complete your assessment for this Competency Standard, you need to answer the questions on the following pages successfully.</b>
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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. How size of lathe is determined?	A. Lathe size is determined by the maximum length of job that can be turned between center and maximum diameter swing over bed.
2. What is the purpose of knurling operation?	A. Knurling is used to make easy grip for a component.
3. 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.
4. 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.
5. What is the function of tool post in lathe machine?	A. A lathe tool post is a machine tool that spins a block of material when abrasive, cutting, or deformation tools are applied to the block.

Question	Candidate's answer
6. Enlist any three parts of lathe machine?	<b>A.</b> <ol style="list-style-type: none"> <li>1. Headstock</li> <li>2. Tailstock</li> <li>3. Bed</li> <li>4. Carriage</li> <li>5. Lead Screw</li> <li>6. Feed Rod</li> <li>7. Chip Pan</li> <li>8. Hand Wheel</li> </ol>
7. State any five different type of cutting tools?	<b>A.</b> <ol style="list-style-type: none"> <li>1. Reamer</li> <li>2. Drill</li> <li>3. Milling tools</li> <li>4. End mill</li> <li>5. Broach</li> <li>6. Tap/thread cutting die</li> </ol>
8. What is reamer?	<b>A.</b> A reamer is a tool to finish the hole opened by a drill according to the required accuracy
9. What is facing?	<b>A.</b> Facing is the process of removing metal from the end of a workpiece to produce a flat surface.
10. What are the 3P's in first aid?	<b>A. "Three P's":</b> <ul style="list-style-type: none"> <li>• Preserve life</li> <li>• Prevent further injury</li> <li>• Provide pain relief</li> </ul>

Question	Candidate's answer
11. Enlist non –verbal communication techniques?	A. Body language Tone of voice
12. What are the four types of safety signs?	A. Four important safety signs: 1. Prohibition, 2. Warning, 3. Mandatory 4. Emergency.
13. What are the safety signs and symbols?	A. A safety sign and symbols provide information about safety or health and can be a signboard, colour, acoustic signal, verbal communication, or hand signal.
14. What is signboard?	A. A signboard is a sign that provides information or instruction using a combination of shape, colour and symbols but excludes information in writing.
15. Red color means?	A. Red is reserved for danger signs and labels
16. Green color means?	A. Green is safety related and means there is no danger present.
17. How many hazard groups?	A. Hazardous products are divided into two hazard groups: physical hazards and health hazards.