

Written Assessment Guide
For
“Dies & Mould
Technology”

Level 4
Perform Advance Grinding Operations

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:
Competency Standard Title: Perform Advance Grinding Operations	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 ☐ NOT YET COMPETENT ☐ Name of the Assessor: Assessor's code: Signature of the Assessor:

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WRITTEN ASSESSMENT

Question	Candidate's answer
1. What is grinding?	A. Grinding is an abrasive machining process used for fine machining and finishing of work pieces. It can be performed manually or using grinding machines.
2. State the types of cylindrical grinding machine?	A. Centre type universal grinding machine, Chunking type cylindrical grinder, Grinding parameters in cylindrical grinding ,Center less grinding
3. Where tool and cutter grinder is used?	A. Tool and cutter grinder is used to sharpen milling cutters and tool bits along with a host of other cutting tools. It is an extremely versatile machine used to perform a variety of grinding operations: surface, cylindrical, or complex shapes.
4. State the different types of tool & cutter grinder?	A. Radius grinder, D-Bit grinder, CNC tool & cutter grinder
5. What is the main function of a JIG grinder?	A. A jig grinder is a machine tool used for grinding complex shapes and holes where the highest degrees of accuracy and finish are required.
6. What is the most important factor on a JIG grinder?	A. The most important factor on a jig grinder is the dual-spindle configuration.
7. State the types of machines used in JIG grinding?	A. Manually operated machine, CNC controlled Jig grinding machine

Question	Candidate's answer
8. Enlist the types of abrasive wheels in JIG grinding?	A. • Conventional Abrasives • CBN Abrasives • Diamond Abrasives
9. Enlist the different grades of grinding wheels?	A. Coarse, Medium and Fine.
10. What is G ratio in grinding?	A. A measure of the ability of a grinding wheel to remove material is given by G ratio. The grinding ratio G is defined as the volume of material removed divided by the volume of wheel wear.