

Written Assessment Guide
For
“Dies & Mould
Technology”

Level 4
Perform CNC Milling/Machining Centre
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 CNC Milling/Machining Centre 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:

Title of Qualification: National Vocational Certificate Level 4, (Dies and Mould Technology) "CAD/CAM Supervisor	CS Code:	Level:4	Version:
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WRITTEN ASSESSMENT

Question	Candidate's answer
1. Define following address codes: • J • P • R • Q	A. • J is a value from arc start point to the center point in Y axis • P is a dwell time in drilling cycle • R is a value of center of arc • Q is a depth of one cut in deep hole drilling cycle
2. These codes are used for? • M03 • M99 • M30 • M05	A. • M03 : spindle start • M99: end of sub program • M30:end of program • M05:spindle stop
3. Enlist any four types of CNC machine?	A. 1. CNC Milling machine 2. CNC Maching Center 3. CNC Lathe 4. CNC Turning Center 5. CNC EDMs 6. CNC Laser Cutting

Question	Candidate's answer
4. Enlist any five parts of CNC Maching?	A. 1. Spindle head 2. Main spindle 3. Main control panel 4. Column 5. Table 6. Splash guard 7. ATC(automatic tool changer) 8. Lubrication unit
5. State the major type of cutting tools for CNC?	A. • End Mill cutters flat tip • End Mill ball nose • End Mill radius tips • Face mill cutters • Drills • Taps
6. What is programming?	A. Programming is a task picking numerical values from drawing and coding them according to certain rules for instructing machine to operate.
7. These codes are used for? • G83 • G43 • G41 • G03	A. • G83 is use for deep peck hole drilling • G43 is use for tool length compensation • G41 is use for tool radius left side offset • G03 is use for counter clock wise
8. Enlist different types of tools used in CNC Maching center to process the job?	A. • Edge finder • Dial indicator • Rubber hammer • Cutting tools • Vice and clamping tools