

Written Assessment Guide
for
“ Dies and Mould
Technology”
Level-3

Perform CNC Lathe Operations

1st -5th March 2021



National Vocational & Technical
Training Commission

Title of Qualification: National Vocational Certificate Level 3, in (Dies and Mould Technology) "CNC Machinist"	CS Code:	Level: 3	Version: 01
Competency Standard Title: Perform CNC Lathe Operations Identify and implement Workplace Policies and Procedures Apply work health and safety practices (WHS) Communicate at workplace	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. Enlist different types of CNC lathe machine based on work requirements?	A. 1. Speed Lathes 2. Engine Lathes 3. Turret Lathes 4. Tool room lathe
2. State the benefits of CNC lathe?	A. a. Stronger capacity b. Higher precision c. Improved efficiency d. Shorter turnaround time

Question	Candidate's answer
3. Enlist any five parts of CNC turning lathe?	A. 1. Machine bed 2. Main spindle 3. Sub-spindle 4. Chuck 5. Guide way 6. Headstock 7. Tailstock 8. Tool turret 9. Monitor 10. Carriage 11. CNC control panel 12. Drive motor
4. How does CNC turning lathe work?	A. CNC turning lathe are used to produce precise turned parts with round or cylinder shapes, the finished product is complete, and does not need second operation on other CNC machining equipment.
5. What are CNC machine tools?	A. Numerical control (also computer numerical control, and commonly called CNC) is the automated control of machining tools (such as drills, lathes, mills) and 3D printers by means of a computer.
6. What is G code?	A. G code in CNC programming controls the movements of a machine, dictating how and where a machine should move to fabricate a part.
7. What is M code?	A. M code in CNC programming controls miscellaneous machine functions, including starting and stopping specific actions or programs.

Question	Candidate's answer
8. Enlist most common workplace accidents?	A. • Slips, trips and falls • Being caught in or struck by moving machinery • Transportation and vehicle-related accidents • Fire and explosions • Overexertion and repetitive stress injuries
9. What is occupational health and hygiene?	A. The definition used by IOHA is: 'Occupational Hygiene is the discipline of anticipating, recognizing, evaluating and controlling health hazards in the working environment with the objective of protecting worker health and well-being and safeguarding the community at large.
10. Enlist the any three types of communication?	A. • Verbal Communication • Non-verbal / Interpersonal communication • Written Communications • Formal & Informal • Visual Communication