

Written Assessment Guide

For

“Dies and Mould Technology”

Level-3

Perform Welding 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:
Competency Standard Title: Perform Welding 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. Define Welding?	A. Welding is the process of permanently joining two similar or dissimilar metals by fusion and pressure with or without a filler metal.
2. Why heat energy is required for welding?	A. Welding is done with the help of heat energy which is used to fuse the base metals.
3. State different sources of heat energy?	A. Heat energy is generated from an electric power, friction between metal surfaces or from burning of gases.
4. Enlist the five major types of welding joints?	A. i. Butt Joint ii. Tee Joint iii. Lap Joint iv. Corner Joint v. Edge Joint
5. Define pressure welding?	A. The welding process which involves heating the surfaces of base metals to a high temperature and then keeps them joined under pressure to get a joint, is called pressure welding.
6. State any 3 types of pressure welding process?	A. Forge welding, Friction welding, Resistance welding, Diffusion welding, Ultrasonic welding, etc.

Question	Candidate's answer
7. Enlist any three types of resistance welding?	A. i. Spot welding ii. Seam welding iii. Flash welding
8. Define fusion welding?	The welding process which involves heating the surfaces of base metals to their melting temperatures which allow them to fuse together with or without the filler metal, is called fusion welding
9. Enlist any four types of fusion welding?	A. i. Arc welding ii. Laser welding iii. Induction welding iv. Oxy-fuel welding v. Solid Reactant welding
10. Enlist any four types of arc welding?	A. i. Gas metal arc welding ii. Gas tungsten arc welding iii. Plasma arc welding iv. Shielded metal arc welding v. Submerged arc welding
11. What is the basic difference between soldering and brazing process?	A. The difference between soldering and brazing process is the temperature required to melt the filler metal. In brazing process filler metals used have high melting points.
12. What is SOP in safety?	A. A standard operating procedure (SOP) is a set of written instructions that describes in detail how to safely perform work involving hazardous materials (biological, chemical, radiological), hazardous equipment or hazardous operations.
13. What is Codes of Practice?	A. Codes of practice are developed by the Commission for Occupational Safety and Health. It includes: I. Ethical principles II. Workplace behavior III. Respect for all people IV. Values V. An honest, unbiased and unprejudiced work environment

Question	Candidate's answer
14. Write the modes of communication?	A. There are three modes of communication; • Interpersonal • Interpretive • Presentational.