

Written Assessment Guide
For
“Dies & Mould
Technology”

Level -5
Manufacture Dies and Moulds

1st -5th March 2021



National Vocational & Technical
Training Commission

Title of Qualification: National Vocational Certificate Level 5, in (Dies and Mould Technology) "Associate Engineer"	CS Code:	Level:5	Version:
Competency Standard Title: Manufacture Dies and Moulds	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 <input type="checkbox"/> NOT YET COMPETENT <input type="checkbox"/> Name of the Assessor: Assessor's code: Signature of the Assessor:.....

Title of Qualification: National Vocational Certificate Level 5, in (Dies and Mould Technology) “Associate Engineer”	CS Code:	Level:5	Version:
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WRITTEN ASSESSMENT

Question	Candidate's answer
1. Enlist any three basic mould components?	A. <ul style="list-style-type: none"> • Feed/Runner system • Temperature adjusting system • Moulding components (Core, Cavity) • Structural components
2. What is Gate in mould components?	A. It's the channel connecting main runner (or sub-runner) with cavity. Shape and dimensions of gate affect product's quality a lot.
3. State the functions of Gate?	A. <ul style="list-style-type: none"> • Control material flow speed. • Use premature condensation at this place to avoid flow backward while injecting. • Use strong shear on melt flowing through to raise the temperature, which will reduce apparent viscosity and enhance liquidity. • Easy for product to separate with runner system.
4. What is core?	A. A core is a device used in casting and molding processes to produce internal cavities and reentrant angles (an interior angle that is greater than 180°).

Question	Candidate's answer
5. Enlist any five basic die components?	<p>A.</p> <ul style="list-style-type: none"> • Die plate, Shoes, Die sets • Bushings and Guide Pins • Heel Plates and Heel Blocks • Screws, Keys, and Dowels • Pads • Spools, Keepers and Shoulder Bolts • Retainer • Springs
6. Enlist five elements of a Die-set?	<p>A.</p> <ul style="list-style-type: none"> • The Die-Block • The Die-Punch • Punch Holder • Die Holder • Stripper Plate • Bolster Plate • Guide Pins or Guide Posts • Guide Bushing • Flange