

Assessment Evidence Guide

for

“Dies and Mould Technology”

Level-3

**Perform 2D & 3D Engineering Drawings using
CAD Software
(Formative Assessment)**

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 2D & 3D Engineering Drawings using CAD Software Identify and implement Workplace Policies and Procedures Apply work health and safety practices (WHS) Communicate at workplace	Assessment Date (DD/MM/YY): Assessment Time: 3 Hours		

Candidate Details	Name: Registration/Roll Number:.....
Guidance for Candidate	To meet this standard, you are required to complete the following within the given time frame (for practical demonstration & assessment): Assessment Task 1: Candidate is required to draw a set of 2D mechanical drawings assign by assessor. Assessment Task 2: Candidate is required to develop 3D model and generate 2D/3D views on layout according to the requirement of job given by assessor. And complete: • Knowledge assessment test (Written or Oral) • Portfolios at the time of assessment (if any)
Minimum Evidence Required	During a practical assessment, under observation by an assessor, you will complete: Assessment Task 1 Performance Criteria 1: Setup user interface settings for required drawing Performance Criteria 2: Create different 2D shapes with given measurements Performance Criteria 3: Edit different 2D shapes to meet requirement Performance Criteria 4: Insert dimensions and symbols as per requirement Performance Criteria 5: Save the file in different drawing formats Performance Criteria 6: Develop 2D Drawing with given project specification and measurements Performance Criteria 7: Plot drawing on scale according to required size & orientation Performance Criteria 8: Identify the workplace policy & procedures Performance Criteria 9: Apply appropriate strategies that can be used to measure whether your workplace health and safety obligations are being met Performance Criteria 10: Implement relevant rules and procedures of WHS at work place Performance Criteria 11: Comply with duty of care requirements Performance Criteria 12: Communicate orally and written

	Assessment Task 2 Performance Criteria 1: Setup 3D user interface settings for required drawing Performance Criteria 2: Create different 3D objects with given measurements Performance Criteria 3: Modify 3D objects in line with the requirements Performance Criteria 4: Generate orthographic views from 3D model Performance Criteria 5: Generate sectional/auxiliary views from 3D model as per requirement Performance Criteria 6: Apply material to required 3D Model as per given specification Performance Criteria 7: Render and print the 3D model according to required size & orientation Performance Criteria 8: Apply texture to 3D model as per requirement Performance Criteria 9: Communicate procedures to help implement workplace policy Performance Criteria 10: Identify hazards or WHS issues in the workplace to relevant personnel
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Assessors Judgment 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:
Assessment Outcome	COMPETENT ☐ NOT YET COMPETENT ☐ Name of the Assessor:Assessor's code: Signature of the Assessor:

Assessment Summary (to be filled by the assessor)							
Activity	Method					Result	
Nature of Activity	Written	Oral	Observation	Portfolio	Role Play	Competent	Not Yet Competent
Practical Skill Demonstration			✓				
Knowledge Assessment	✓	✓					
Other Requirement							

Each Assessment Task (with performance criteria)				
Assessment Task 1		Description of assessment task 1 Candidate is required to draw a set of 2D mechanical drawings assign by assessor.		
During the practical assessment, candidate demonstrated the following:		Yes	No	Remarks
1.	Setup user interface settings for required drawing			
2.	Create different 2D shapes with given measurements			
3.	Edit different 2D shapes to meet requirement			
4.	Insert dimensions and symbols as per requirement			
5.	Save the file in different drawing formats			
6.	Develop 2D Drawing with given project specification and measurements			
7.	Plot drawing on scale according to required size & orientation			
8.	Identify the workplace policy & procedures			
9.	Apply appropriate strategies that can be used to measure whether your workplace health and safety obligations are being met			
10.	Implement relevant rules and procedures of WHS at work place			
11.	Comply with duty of care requirements			
12.	Communicate orally and written			
Competent ☐		Not Yet Competent ☐		

Each Assessment Task (with performance criteria)				
Assessment Task 2		Description of assessment task 2 Candidate is required to develop 3D model and generate 2D/3D views on layout according to the requirement of job given by assessor.		
During the practical assessment, candidate demonstrated the following:		Yes	No	Remarks
1.	Setup 3D user interface settings for required drawing			
2.	Create different 3D objects with given measurements			
3.	Modify 3D objects in line with the requirements			
4.	Generate orthographic views from 3D model			
5.	Generate sectional/auxiliary views from 3D model as per requirement			
6.	Apply material to required 3D Model as per given specification			
7.	Render and print the 3D model according to required size & orientation			
8.	Apply texture to 3D model as per requirement			
9.	Communicate procedures to help implement workplace policy			
10.	Identify hazards or WHS issues in the workplace to relevant personnel			
Competent ☐		Not Yet Competent ☐		