

071505T4MTP

MECHANICAL PRODUCTION TECHNICIAN LEVEL 5

ENG/OS/ME/CR/02/5

Perform Grinding Operations

July/August 2025



**TVET CURRICULUM DEVELOPMENT, ASSESSMENT AND CERTIFICATION
COUNCIL (TVET CDACC)**

PRACTICAL ASSESSMENT

INSTRUCTIONS TO ASSESSOR

1. Assess the candidate as the practical progresses observing the critical areas,
2. You are required to mark the practical as the candidate perform the tasks,
3. You are required to take video clips at critical points,
4. Ensure the candidate has a name tag and registration code at the back and front.

OBSERVATION CHECKLIST

Candidate's name & Registration No.			
Assessor's name & Id code			
Unit(s) of Competency			
Venue of Assessment			
Date of assessment			
Items to be evaluated: <i>Please award marks as appropriate. Give a brief comment on your observation.</i>	Marks Available	Marks Obtained	Comments
1. OBSERVATION CHECKLIST			
a. Wore prescribed personal safety gears as per workplace procedures • safety boots • safety hand gloves • overall/apron • safety goggles <i>(Award full marks or zero)</i>	1 1 1 1		
b. Prepared operational plan as per appendix II on the observation checklist <i>(Award ½ mark for each operation and ½ mark for each tool) (12 × ½ = 6)</i>	6		
c. Inspected and filled candidate's checklist. Appendix 1 on candidate's tool <i>(Award ½ mark for each identified measurement on appendix 1 on the candidate's tool) (14 × ½ = 7)</i>	7		
d. Performed house keeping • Cleaned working area • Cleaned tools and equipment's • Segregated wastes according to workplace procedures • Returned tools to the designated area	1 1 1 1		

(Award full marks or zero)																															
SUB TOTAL	21																														
PRODUCT CHECKLIST																															
Items to be evaluated: <i>please award as appropriate. Give a brief comment on your observation.</i> Note All dimensions are in mm Tolerance: ± 0.2	Marks Available	Marks Obtained	Comments																												
2. MATERIAL PREPARATION																															
a. Linear dimensions. <table> <tr> <td>1. 100</td> <td>(2×2)</td> <td>4</td> <td></td> </tr> <tr> <td>2. 50</td> <td>(2×2)</td> <td>4</td> <td></td> </tr> <tr> <td>3. 40</td> <td>(2×2)</td> <td>4</td> <td></td> </tr> <tr> <td>4. 30</td> <td>(2×2)</td> <td>4</td> <td></td> </tr> <tr> <td>5. 8</td> <td>(</td> <td>4</td> <td></td> </tr> <tr> <td>6. 4</td> <td>(</td> <td>4</td> <td></td> </tr> <tr> <td>7. 3</td> <td>(</td> <td>4</td> <td></td> </tr> </table> (Award marks as indicated)	1. 100	(2×2)	4		2. 50	(2×2)	4		3. 40	(2×2)	4		4. 30	(2×2)	4		5. 8	(	4		6. 4	(	4		7. 3	(	4				
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7. 3	(	4																													
b. Quality of surface finish - Smooth surface - Edge treatment - No black spots - No clamping marks - No sharp edges - Uniformly tapered (bevelled edge)(2×2) (Award marks as indicated)	3 3 3 3 4 4																														
c. Squareness of edges Uniform edges (6×1) (Award marks as indicated)	6																														
SUB TOTAL	54																														

GRAND TOTAL	75		
Candidates overall score $\frac{x}{75} \times 100\%$			
ASSESSMENT OUTCOME			
The candidate was found to be: Competent ☐ Not yet Competent ☐ <i>(Please tick as appropriate)</i> <i>(The candidate is competent if the candidate obtains at least 50%)</i>			
Feedback from the Candidate:			
Feedback to the Candidate:			
Candidate Signature		Date:	
_____		_____	
Assessor's Signature		Date	
_____		_____	

APPENDIX II**OPERATION PLAN**

SERIAL NO	OPERATION	TOOLS AND EQUIPMENT
1.	Measuring	Vernier calliper, steel rule, try square
2.	Marking out	Scriber, punches
3.	Surface grinding	Surface grinder, vice
4.	Step surface grinding	Surface grinder, vice
5.	Bevelled edge	Surface grinder, universal vice
6.	Edge treatment	Flat file