

071605T4AMEM

AGRICULTURAL MACHINERY & EQUIPMENT MECHATRONICS LEVEL 5

ENG/OS/AME/CR/2/5/A

Operate Agricultural Mechatronics Machinery and Equipment

Nov/Dec 2024



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

PRACTICAL ASSESSMENT

OBSERVATION CHECKLIST

Candidate's Name & Registration Code			
Assessor's Name & Registration Code			
Venue of Assessment			
Date of assessment			
Items to be evaluated: <i>Award marks appropriately. Give a brief comment where less or no marks have been awarded</i>	Marks Allocated	Marks Awarded	Comments

TASK 1: HITCH A PLOUGH TO A TRACTOR			
1. Worn Personal Protective Equipment <ul style="list-style-type: none"> • Safety boots • Overall/dust coat • Gloves • Helmet <i>(Award 1 mark for any 3 PPEs worn x 3 = 3 marks)</i>	3		
2. Checked the machine's safety requirements <ul style="list-style-type: none"> • Personal safety • Tractor • Plough • Loose parts <i>(Award 1 mark each x 3 = 3 marks)</i>	3		
3. Checked hydraulic fluid levels and tire pressure appropriately <ul style="list-style-type: none"> • Fuel level • Oil level • Coolant • Tire pressure <i>(Award 1 mark for each or zero x 4 = 4 marks)</i>	4		
4. Assembled the hitching tools <ul style="list-style-type: none"> • Lock pins • Safety pins • Top link <i>(Award 1 mark for each tool x 3 = 3 marks)</i>	3		
5. Identified the correct hitching method <ul style="list-style-type: none"> • Three-point linkage <i>(Award 1 mark for identification)</i>	1		

6. Applied grease into the bearing points and hitching points <i>(Award 1 marks for each)</i>	2		
7. Monitored agricultural machinery systems idling <ul style="list-style-type: none"> Correct engine warm up <i>(Award 2 marks or zero mark)</i>	2		
8. Aligned the tractor with the plough and hitched <ul style="list-style-type: none"> Correct alignment Attached the three-point linkages in the right procedure(left-right-top) links Drove the tractor to the field with the plough raised <i>(Award 2 marks for each activity x 3 = 6 marks)</i>	6		
Sub-Total 1	24		
TASK 2: OPERATE THE PLOUGH			
9. Ploughed the given piece of land <ul style="list-style-type: none"> Initiated furrow opening of the field (using gathering or casting method). Maintained steady furrow depth and straight lines (at least three rounds). Monitored the disc performance during ploughing Maintained right gear and constant speed Demonstrated proper turning techniques <i>(Award 2 marks for each activity x 5 = 10 marks)</i>	10		
10. Cleaned the agricultural machinery and the plough <ul style="list-style-type: none"> Removed trash and sticky soil from the plough Washed the plough and the tractor with adequate water 	2		

(Award 1 mark for each activity x 2 = 2 marks)			
11. Unhitched the plough <ul style="list-style-type: none"> • Drove the tractor to the parking shade • Lowered the implement • Removed safety pins • Unhitched the three links (Award 2 marks for each activity x 4 = 8 marks)	8		
12. Inspected the implement after use <ul style="list-style-type: none"> • Checked for missing parts and broken parts (Award 1 mark for the activity)	1		
Sub-Total 2	21		
TOTAL MARKS	45		
ASSESSMENT OUTCOME			
<p>The candidate was found to be:</p> <p style="text-align: center;">Competent <input type="checkbox"/> Not yet competent <input type="checkbox"/></p> <p>(Please tick as appropriate)</p> <p>(The candidate is competent if the candidate obtains at least 50%)</p>			
Feedback from candidate:			
Feedback to candidate:			
<div style="display: flex; justify-content: space-between;"> <div>Candidate's Signature</div> <div>Date</div> </div>			

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Assessor's Signature	Date
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