

071604T4AME

AGRICULTURAL MACHINERY AND EQUIPMENT LEVEL 4

ENG/OS/AME/CR/01/4

Operate and Maintain Farm Tractor

July/August 2025



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

PRACTIC SSMENT

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 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: CARRY OUT PRE-OPERATION CHECKS ON A TRCTOR			
1) Worn Personal Protective Equipment • Safety boots • Overall/dust coat • Gloves • Helmet/head gear <i>(Award 1 mark for any PPEs worn x 3 = 3 marks)</i>	3		
2) Assembled the tools and resources • Lock pins/clips • Coolant • Grease • New engine oil • Multimeter • Old engine oil <i>(Award 1 mark for each tool assembled x 6 = 6 marks)</i>	6		

3) Checked the tire conditions - Well inflated/adequate pressure - Punctures/deformation/wear - Checked on the nuts(loose/tight) - Moved round and inspected the four tires <i>(Award 1 mark for each activity x 4 = 4 marks)</i>	4		
4) Checked on the coolant level - Located the coolant reservoir/radiator - Checked the level on the mark (between MIN and MAX) - Added coolant to the required level appropriately (award a mark if the level is ok, no addition) <i>(Award 1 mark for each activity x 4 = 4 marks)</i>	3		
5) Checked on the battery condition - Visual inspection of cracks or corrosion terminals - Tightness of the terminals - Checked voltage with a multimeter <i>(Award 1 mark for each activity x 3 = 3 marks)</i>	3		
6) Checked the engine oil level - Opened the engine oil cap - Removed the dipstick to check the engine oil level - Wiped the dipstick with a clean cloth - Added the engine oil if necessary, depending on the level (award a mark if the level is ok, no addition) - Returned the dipstick - Returned the tractor hood <i>(Award 1 mark for each activity x 6 = 6 marks)</i>	6		
Sub Total 1	25		
TASK 2: OPERATE THE PLOUGH			

7) Identified the correct hitching method Three-point linkage <i>(Award 1 mark for identification x 1 = 1 mark)</i>	1		
8) Applied grease - Bearing points - Hitching points <i>(Award 1 mark for each activity x 2 = 2 marks)</i>	2		
9) Ignited the tractor and monitored systems idling - Occupied the operator's seat - Started the engine - Ensured correct engine warm up <i>(Award 1 mark for each activity x 3 = 3 marks)</i>	3		
10) Hitched the plough - Correct alignment - Attached the three-point linkage ht 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		
11) Tested the implement on a given piece of land - Made a furrow on the field - Maintained steady furrow depth and straight lines - Monitored the disc performance during ploughing - Maintained right gear and constant speed - Demonstrated proper turning techniques <i>(Award 1 mark for each activity x 5 = 5 marks)</i>	5		
12) Maintained farm tractor and farm implement - Removed trash and sticky soil from the plough - Cleaned the plough and the tractor with adequate water and detergent	3		

Applied old engine oil on the farm tractor (Award 1 mark for each activity x 3 = 3 marks)			
13) Unhitched the plough - Drove the tractor to the parking shade - Lowered the implement - Unhitched the three links - Checked for missing parts and broken parts - Returned tools and resources (Award 1 mark for each activity x 5 = 5 marks)	5		
Sub-Total 2	25		
GRAND TOTAL	50		
ASSESSMENT OUTCOME			
The candidate was found to be: Competent ☐ or yet competent ☐ (Please tick as appropriate) <i>(The candidate is competent if the candidate obtains at least 50%)</i>			
Feedback from candidate:			
Feedback to candidate:			
Candidate's Signature		Date	
_____		_____	
Assessor's Signature		Date	
_____		_____	