

071906T4AEN

AGRICULTURAL ENGINEERING LEVEL 6

ENG/OS/AGR/CR/05/6/A

Demonstrate Understanding of Tractors and Power Units

Nov/Dec 2024



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

PRACTICAL ASSESSMENT

OBSERVATION CHECKLIST

Candidate's Name & Registration Code			
Assessors Name & Registration Code			
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
TASK 1			
1. Wore PPEs <ul style="list-style-type: none"> Overall, Gum boots). <i>(Award 1 mark each)</i>	2		
2. Assembled tools and materials <i>(Award 1 mark)</i>	1		

<p>3. Wrote the functions of the machine Z (tractor)</p> <ul style="list-style-type: none"> • Pull loads • Push loads • Rotate machines • Transport loads <p><i>(Award 1 mark each)</i></p>	4		
<p>4. Labelled five external parts of the machine Z (tractor)</p> <ul style="list-style-type: none"> • Engine • Radiator • Wheel axles • Wheels • Ballast • Levers • Pedals • Steering wheel • P.T.O. • Linkages • Drawbar • Ignition switch port • Gauges • Seat • Mudguards <p><i>(Award 1 mark each, maximum 5 marks)</i></p>	5		
<p>5. Wrote the functions of the machine Z (tractor)</p> <ul style="list-style-type: none"> • Pull loads • Push loads 	4		

<ul style="list-style-type: none"> • Rotate machines • Transport loads <p><i>(Award 1 mark each)</i></p>			
<p>5. Performed four preliminary checks on machine Z (tractor)</p> <ul style="list-style-type: none"> • Engine oil level • Radiator cap • Water level • Tyre pressure • Fuel gauge • Bolts and nuts • Greasing points <p><i>(Award 1 mark each)</i></p>	4		
<p>6. Started the tractor engine using the correct procedure</p> <ul style="list-style-type: none"> • Compressed the clutch pedal to disengage the clutch • Selected neutral gear • Inserted the ignition key • Turned and released the ignition key without overloading the starter <p><i>(Award 2marks each)</i></p>	<p>2</p> <p>2</p> <p>2</p> <p>2</p>		
<p>7. Operated the tractor.</p> <ul style="list-style-type: none"> • Selected gear number one • Released the clutch pedal gradually without jacking • Drove forward the tractor to a predetermined distance in the marked field 	8		

<ul style="list-style-type: none"> • Changed the gears using the correct procedure without clashing. • Indicated direction • Stopped the tractor • Reversed the tractor as directed by the supervisor • Stopped the tractor, engaged neutral gear, and hand brake <p><i>(Award 1 mark each)</i></p>			
8. Operated the hydraulic system on the tractor <ul style="list-style-type: none"> • Identified hydraulic lever • Operated the hydraulic lever <p><i>(Award 1 mark each)</i></p>	2		
9. Operated the P.T.O. shaft. <ul style="list-style-type: none"> • Identified P.T.O. lever • Operated the P.T.O. shaft <p><i>(Award 1 mark each)</i></p>	2		
10. Switched off the tractor as per the SOPs <ul style="list-style-type: none"> • Turned the ignition key anticlockwise • Removed the key from the key port • Engaged handbrake <p><i>(Award 1 mark each)</i></p>	3		
11. Choked the tractor wheels using wooden blocks <p><i>(Award 1 mark)</i></p>	1		
12. Observed safety <p><i>(Award 1 mark)</i></p>	1		
GRAND TOTAL	45		
ASSESSMENT OUTCOME			

<p>The candidate was found to be:</p> <div style="display: flex; justify-content: space-around; align-items: center;"> Competent <input style="width: 50px; height: 25px; border: 1px solid black;" type="checkbox"/> Not yet Competent <input style="width: 50px; height: 25px; border: 1px solid black;" type="checkbox"/> </div> <p><i>(Please tick as appropriate)</i></p> <p><i>(The candidate is competent if the candidate obtains at least 50%)</i></p>	
<p>Feedback from the Candidate:</p>	
<p>Feedback to the Candidate:</p>	
<p>Candidate Signature</p> <hr style="border: 0; border-top: 1px solid black; margin-top: 10px;"/>	<p>Date:</p> <hr style="border: 0; border-top: 1px solid black; margin-top: 10px;"/>
<p>Assessor's Signature</p> <hr style="border: 0; border-top: 1px solid black; margin-top: 10px;"/>	<p>Date</p> <hr style="border: 0; border-top: 1px solid black; margin-top: 10px;"/>