

2071604T4AME

AGRICULTURAL MACHINERY AND EQUIPMENT LEVEL 4

ENG/OS/AME/CR/01/4/A

Operate and Maintain Farm Tractor

March/April 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 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
1. Wore PPEs: <ul style="list-style-type: none"> • Overall • Safety boots • Hand gloves <i>(Award 3marks or Zero)</i>	3		
2. Assembled tools and materials <i>(Award 2 marks or zero)</i>	2		
TASK 1: Service the fuel injector			
3. Removed the injector <ul style="list-style-type: none"> • Identified the location of the injector • Disconnect the high- and low-pressure fuel lines • Carefully removed the injector without damaging the components. <i>(Award 2 marks each or zero)</i>	6		
4. Correctly dismantled the injector <ul style="list-style-type: none"> • Marked the positions for easier reassembly • Clamped the injector carefully on a bench vice • Correctly dismantled the injector nozzle <i>(Award 2 mark each or Zero)</i>	6		
5. Inspected the components of the injector	6		

<ul style="list-style-type: none"> • Checked the nozzle valve for signs of erosion or clogging • Cleaned the dismantled components with diesel • Checked for any damaged and worn out parts and replaced if necessary <p><i>(Award 2 mark each or Zero)</i></p>			
<p>6. Reassembled the injector</p> <ul style="list-style-type: none"> • Properly reassembled the components • Ensured all connections and fastenings are secure <p><i>(Award 2 mark each or zero)</i></p>	4		
<p>7. Tested the injector nozzle</p> <ul style="list-style-type: none"> • Tested for back leaks using injector nozzle tester • Tested the injector nozzle for spray pattern • Tested the injector nozzle for breaking pressure <p><i>(Award 2 mark each or zero)</i></p>	6		
Sub-Total 1	33		
TASK 2: Bleeding Compression ignition fuel system			
<p>8. Performed bleeding of the diesel fuel system</p> <ul style="list-style-type: none"> • Located the fuel system bleed screws • Used the hand priming pump lever to pump fuel through the system • Correctly opened the bleed valves to allow air bubbles to purge out • Closed the bleed valves and repeated the procedure until fuel flows without air. 	12		

<ul style="list-style-type: none"> Ensured all the connections and fastenings are secure. Started the engine and listened for irregular engine noises. <p><i>(Award 2 marks each or zero)</i></p>			
9. Cleaned the work area <i>((Award 1 mark or zero))</i>	1		
Sub-Total 2	13		
GRAND TOTAL	46		
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><i>(Please tick as appropriate)</i></p> <p><i>(The candidate is competent if the candidate obtains at least 50%)</i></p>			
Feedback from the Candidate:			
Feedback to the Candidate:			
Candidate Signature		Date:	
_____		_____	
Assessor's Signature		Date	
_____		_____	