

071604T4AME

AGRICULTURAL MACHINERY AND EQUIPMENT LEVEL 4

ENG/OS/AME/4/CR/05/4/A

Maintain Agricultural Pneumatic Systems

March/April 2025



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

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: - Overall/ dustcoat - Safety boots - Gloves <i>(Award 1 mark each or zero)</i>	3		
2. Assembled tools and materials for the task <i>(Award 2 marks or zero)</i>	2		
TASK : Draining water from an air compressor			
3. Before starting any maintenance; - Turned off the compressor - Disconnected it from the power source. - Released all air pressure from the tank by opening the drain valve. <i>(Award 2 marks or zero)</i>	2 2 2		
4. Draining the condensate or water - Located the drain valve at the bottom of the compressor tank. - Placed a container or bucket below the drain valve to catch the expelled water. - Used a wrench or hand to slowly open the drain valve counterclockwise. Allowed the	2 2 2		

water to flow out completely. (Award 2 marks or zero)			
5. Inspection of the expelled water • Checked the expelled water for any signs of oil or contaminants. • Once all the water has drained, closed the drain valve by turning it clockwise. • After closing the drain valve, inspected the area around the valve for any air leaks. • Tightened the valve (Award 2 marks or zero)	2 2 2 2 2		
6. Testing the compressor • Turned the compressor back on and let it run for a few minutes to build up pressure. • Checked for any signs of leaks (Award marks as indicated or zero)	2 1		
SUB TOTAL	30		
TASK 2: Adjust drive belt			
7. Checked to be certain that all the control switches are in the off position.	1		
8. Tested the belt tension • Removed the belt guard from the machine. • Attached a belt tension gauge to the center of the span between the motor and compressor sheaves.	2 2		

- Followed the operational directions of the belt drive tension gauge. - Scribe a mark on the deck of the unit along the edge of the motor base to be used as a reference location	2		
9. Adjusted the belt tension - If the deflection of belt is too great, then loosen the motor or engine bolts and slide the motor or engine away from the pump. - If the deflection of belt is too small, then loosen the motor or engine bolts and slide the motor or engine toward the pump. - Recheck the belt tension with the gauge.	2		
10. Cleaned the equipment and tools and arranged the working area - Cleaned the compressor - Cleaned the tools - Cleaned the working area <i>(Award 1 marks or zero for each)</i>	3		
SUB TOTAL	17		
GRAND TOTAL	47		
ASSESSMENT OUTCOME			
The candidate was found to be: Competent ☐ Not yet Competent ☐ <i>(Please tick as appropriate)</i>			

(The candidate is competent if the candidate obtains at least 50%)

Feedback from the Candidate:

Feedback to the Candidate:

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