

071604T4AME

AGRICULTURAL MACHINERY AND EQUIPMENT LEVEL 4

ENG/OS/AME/4/CR/04/4/A

Maintain Hydraulic Systems

March/April 2025



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

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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
TASK: Service the hydraulic gear pump and replace the seals			
1. Wore PPEs - Overall/dustcoat - Safety boots (Award 1 mark each or zero)	2		
2. Assembled tools and materials (Award 1 Mark or zero)	1		
3. Correctly dismantled the hydraulic gear pump - Placed the pump in a vice with the drive shaft pointing down. - Marked each casting in the assembly - Loosened and removed the cap screws and washers - Removed the port end cover subassembly - Removed the gear housing subassembly - Removed and discarded the rubber section seals from the top and the bottom gear housing faces - Wiped the gear face surface dry with a clean cotton cloth.	2 2 2 2 2 2		

- Marked the teeth of the gear set at their mesh point - Removed the idler gear and the gear shaft. (Award 2 Marks or zero)	2 2		
4. Inspected the parts - Checked for Score marks, grooves, or burrs on the outside diameter of the teeth and on the hub. - Checked for broken gear teeth - Checked for wear or damage to the drive spline, key, or keyway. - Checked for flatness of the mating surfaces using a feeler gauge and straight edge. (Award 1 Mark or zero)	1 1 1 1		
5. Reassembled the hydraulic gear pump - Located the orientation mark on the gear housing and lined it up with the mark on the shaft end cover. - Reassembled the gears back to the housing - Applied thin film of oil on the new seals and replaced them. - Placed the port end cover over the gear journals. The orientation mark on the port end cover must line up with the mark on the gear housing	2 2 2 2		

Feedback to the Candidate:	
Candidate Signature	Date:
_____	_____
Assessor's Signature	Date
_____	_____

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