

Instruction Sheet for the Candidate

Qualification	Agricultural Machinery Mechanic (Level 5)
Competency Standard	Maintain pumps and tube wells
Purpose of Assessment	Formative Assessment
Candidate Details	Name_____ Registration/Roll Number_____
Guidance for Candidate	<p>To meet this standard, you are required to complete the following within 02 Hrs. time frame (for practical demonstration & assessment):</p> <ul style="list-style-type: none"> • Identify pumps and tube wells • Operate pumps and tube well • Maintain pumps and tube wells
Time: 02 Hrs.	During a practical assessment, under observation by an assessor, you are required to
Minimum Evidence Required	<p>Identify pumps and tube wells</p> <ol style="list-style-type: none"> 1. Identify different types of pumps and tube wells. 2. Identify the major components of pumps and tube wells. 3. Identify the appropriate prime mover for pump and tube well. <p>Operate pumps and tube well</p> <ol style="list-style-type: none"> 1. Adjust the rpm of Prime Mover as per manufacturer guidelines 2. Engage clutch for smooth startup of the pump 3. Adjust RPM of the prime mover to deliver optimum discharge <p>Maintain pumps and tube wells</p> <ol style="list-style-type: none"> 1. Check drive belts and pulleys for their tension and brakeage 2. Open the impeller housing 3. Remove the shaft and impeller 4. Check the impeller and shaft condition 5. Remove the bearing with special tool 6. Insert new joint kit 7. Re-assemble the pump 8. Lubricate the lubricant points.

Self-Assessment Checklist

Candidate Name	
Registration No.	
Qualification	Agricultural Machinery Mechanic (Level 5)
Competency Standard	Maintain pumps and tube wells
Purpose of Assessment	Formative Assessment
Assessment Task	<ul style="list-style-type: none"> Identify pumps and tube wells Operate pumps and tube well Maintain pumps and tube wells

I can.....

Performance Criteria	Yes	No
1. Identify different types of pumps and tube wells.	<input type="checkbox"/>	<input type="checkbox"/>
2. Identify the major components of pumps and tube wells.	<input type="checkbox"/>	<input type="checkbox"/>
3. Identify the appropriate prime mover for pump and tube well.	<input type="checkbox"/>	<input type="checkbox"/>
4. Adjust the rpm of Prime Mover as per manufacturer guidelines	<input type="checkbox"/>	<input type="checkbox"/>
5. Engage clutch for smooth startup of the pump	<input type="checkbox"/>	<input type="checkbox"/>
6. Adjust RPM of the prime mover to deliver optimum discharge	<input type="checkbox"/>	<input type="checkbox"/>
7. Check drive belts and pulleys for their tension and brakeage	<input type="checkbox"/>	<input type="checkbox"/>
8. Open the impeller housing	<input type="checkbox"/>	<input type="checkbox"/>
9. Remove the shaft and impeller	<input type="checkbox"/>	<input type="checkbox"/>
10. Check the impeller and shaft condition	<input type="checkbox"/>	<input type="checkbox"/>
11. Remove the bearing with special tool	<input type="checkbox"/>	<input type="checkbox"/>
12. Insert new joint kit	<input type="checkbox"/>	<input type="checkbox"/>
13. Re-assemble the pump	<input type="checkbox"/>	<input type="checkbox"/>

14. Lubricate the lubricant points.	<input type="text"/>	<input type="text"/>
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Candidate's Signature _____ Assessor's Signature _____

Date: _____

Assessors Judgment Guide

Qualification	Agricultural Machinery Mechanic (Level 5)
Competency Standard	Maintain pumps and tube wells
Purpose of Assessment	Formative Assessment
Candidate Details	Name: _____ Registration/Roll Number: _____ Signature: _____
Assessment Outcome	COMPETENT <input type="checkbox"/> NOT YET COMPETENT <input type="checkbox"/> Name of the Assessor _____ Assessor's code: _____ Signature: _____

Assessment Summary (to be filled by the assessor)		
Activity	Method	Result

Nature of Activity	Written	Oral	Observation	Portfolio	Role Play	Competent	Not Yet Competent
Practical Skill Demonstration							
Knowledge Assessment							
Other Requirement							

Observation Checklist

Assessment Task	<ul style="list-style-type: none"> Identify pumps and tube wells Operate pumps and tube well Maintain pumps and tube wells 			
During the practical assessment, candidate demonstrated the following:		Yes	No	Remarks
1.	Identify different types of pumps and tube wells.			
2.	Identify the major components of pumps and tube wells.			
3.	Identify the appropriate prime mover for pump and tube well.			
4.	Adjust the rpm of Prime Mover as per manufacturer guidelines			
5.	Engage clutch for smooth startup of the pump			
6.	Adjust RPM of the prime mover to deliver optimum discharge			
7.	Check drive belts and pulleys for their tension and brakeage			
8.	Open the impeller housing			
9.	Remove the shaft and impeller			
10.	Check the impeller and shaft condition			
11.	Remove the bearing with special tool			
12.	Insert new joint kit			
13.	Re-assemble the pump			
14.	Lubricate the lubricant points.			
Competent <input type="checkbox"/>		Not Yet Competent <input type="checkbox"/>		

Knowledge Assessment

Qualification	Agricultural Machinery Mechanic (Level 5)
Competency Standard	Maintain pumps and tube wells
Purpose of Assessment	Formative Assessment
Candidate Details	Name: _____ Registration/Roll Number: _____ Candidate Signature: _____
Assessment Outcome	<div style="display: flex; justify-content: space-around; align-items: center;"> COMPETENT <input type="checkbox"/> NOT YET COMPETENT <input type="checkbox"/> </div> Name of the Assessor: _____ Assessor's code: _____ Signature of the Assessor: _____

Candidate's response is not required to be identical, but similar concepts and/or keywords must be used. Oral questioning may be used to clarify candidate understanding of topic and its application.

Questions (Candidate confidently answered questions correctly and demonstrated understanding of the topics and their application)		Satisfactory	Not Satisfactory
1.	Where submersible pump is used?		
2.	What pump types are commonly used in agricultural?		
3.	What are rated RPM for Pump?		

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