

Instruction Sheet for the Candidate

Qualification	Agricultural Machinery helper (Level-2)
Competency Standard	<ol style="list-style-type: none"> 1. Carry out basic marking operations in the workshop 2. Use components different types of tools and equipment in the workshop 3. Perform precision measurements on various components 4. Use different type of fastening and locking devices in the workshop 5. Perform basic fitting operations used in the workshop practices 6. Carryout maintenance of tools and machines 7. Identify the hydraulic and pneumatic components in agricultural machinery 8. Perform Cutting job 9. Perform surface finishing operations on the given job 10. Perform Drilling Machine Operations 11. Perform Metal / Bench Work 12. Produce sheet metal components using various sheet metal operations 13. Use tillage implements
Purpose of Assessment	Summative Assessment
Candidate Details	Name_____ Registration/Roll Number_____
Guidance for Candidate	<p>To meet this standard, you are required to complete the following within time frame (for practical demonstration & assessment):</p> <p>A) Inspect and Rectify the cultivator having faults as under</p> <ul style="list-style-type: none"> • Broken frame • Worn out tines <p>B) Attach and use of implements as under</p> <ul style="list-style-type: none"> • Reversible Mould Board plough • Rear blade
Time: 05 Hrs.	<p>During a practical assessment, under observation by an assessor, you are required to</p> <p><u>TASK A :</u></p> <p>Rectify the cultivator having faults as under</p> <ul style="list-style-type: none"> • Broken frame • Worn out tines

<p>Minimum Evidence Required</p>	<ol style="list-style-type: none"> 1. Dismantle cultivator by using appropriate tools 2. Make a groove with disc grinder on crack of frame 3. Weld the frame with Electric Welding by using proper rod and ampere 4. Finish the weld area with Hand Grinders 5. Repaint the Repair area 6. Reassemble the cultivators by using new tine's blades with proper Tools ,Hardware and Torque <p><u>Task B :</u></p> <p>Attach and use on field implements as under</p> <ul style="list-style-type: none"> • Reversible Mould Board plough(RMB) • Rear blade <p><u>MOULD board plough</u></p> <ol style="list-style-type: none"> 1. Select appropriate category balls and fix in lower links 2. Start the Tractor 3. Align the tractor with RMB 4. Attach RMB with left lower link first with the help of position control lever 5. Attach RMB with right lower link with the help of leveling box 6. Attach RMB with top link 7. Use the RMB in field by using draft control hydraulic system. <p><u>Rear blade</u></p> <ol style="list-style-type: none"> 1. Select appropriate category balls and fix in lower links 2. Start tractor as per sop 3. Align the tractor with rear blade 4. Select position control at hydraulic quadrant 5. Attach rear blade with left lower link with the help of position control lever 6. Attach rear blade with right lower link with the help of leveling box 7. Attach rear blade with top link 8. In field select and adjust Ploughing depth with position control lever 9. Use the rear blade in field by using draft control hydraulic
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Self-Assessment Checklist

Candidate Name	
Registration No.	
Qualification	Agricultural Machinery helper (Level-2)
Competency Standard	<ol style="list-style-type: none"> 1. Carry out basic marking operations in the workshop 2. Use components different types of tools and equipment in the workshop 3. Perform precision measurements on various components 4. Use different type of fastening and locking devices in the workshop 5. Perform basic fitting operations used in the workshop practices 6. Carryout maintenance of tools and machines 7. Identify the hydraulic and pneumatic components in agricultural machinery 8. Perform Cutting job 9. Perform surface finishing operations on the given job 10. Perform Drilling Machine Operations 11. Perform Metal / Bench Work 12. Produce sheet metal components using various sheet metal operations 13. Use tillage implements
Purpose of Assessment	Summative Assessment
Assessment Task	<p>A) Inspect and Rectify the cultivator having faults as under</p> <ul style="list-style-type: none"> • Broken frame • Worn out tines <p>B) Attach and use of implements as under</p> <ul style="list-style-type: none"> • Reversible Mould Board plough • Rear blade

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Performance Criteria	Yes	No
1. Dismantle cultivator by using appropriate tools	<input type="checkbox"/>	<input type="checkbox"/>
2. Make a groove with disc grinder on crack of frame	<input type="checkbox"/>	<input type="checkbox"/>
3. Weld the frame with Electric Welding by using proper rod and current	<input type="checkbox"/>	<input type="checkbox"/>
4. Finish the weld area with Hand Grinders	<input type="checkbox"/>	<input type="checkbox"/>
5. Repaint the Repair area	<input type="checkbox"/>	<input type="checkbox"/>
6. Reassemble the cultivators by using new times blades with proper Tools ,Hardware and Torque	<input type="checkbox"/>	<input type="checkbox"/>

7. Select appropriate category balls and fix in lower links	<input type="text"/>	<input type="text"/>
8. Start tractor as per sop	<input type="text"/>	<input type="text"/>
9. Align the tractor with MOULD board plough	<input type="text"/>	<input type="text"/>
10. Select position control at hydraulic quadrant	<input type="text"/>	<input type="text"/>
11. Attach MOULD board plough with left lower link with the help of position control lever	<input type="text"/>	<input type="text"/>
12. Attach MOULD board plough with right lower link with the help of leveling box	<input type="text"/>	<input type="text"/>
13. Attach MOULD board plough with top link	<input type="text"/>	<input type="text"/>
14. In field select and adjust Ploughing depth with position control lever	<input type="text"/>	<input type="text"/>
15. Use the MOULD board plough in field by using draft control hydraulic system.	<input type="text"/>	<input type="text"/>
16. Select appropriate category balls and fix in lower links	<input type="text"/>	<input type="text"/>
17. Start tractor as per sop	<input type="text"/>	<input type="text"/>
18. Align the tractor with rear blade	<input type="text"/>	<input type="text"/>
19. Select position control at hydraulic quadrant	<input type="text"/>	<input type="text"/>
20. Attach rear blade with left lower link with the help of position control lever	<input type="text"/>	<input type="text"/>
21. Attach rear blade with right lower link with the help of leveling box	<input type="text"/>	<input type="text"/>
22. Attach rear blade with top link	<input type="text"/>	<input type="text"/>
23. In field select and adjust Ploughing depth with position control lever	<input type="text"/>	<input type="text"/>
24. Use the rear blade in field by using draft control hydraulic system.	<input type="text"/>	<input type="text"/>

Candidate's Signature_____ Assessor's Signature_____

Date: _____

Assessors Judgment Guide

Qualification	Agricultural Machinery helper (Level-2)
Competency Standard	<ol style="list-style-type: none"> 1. Carry out basic marking operations in the workshop 2. Use components different types of tools and equipment in the workshop 3. Perform precision measurements on various components 4. Use different type of fastening and locking devices in the workshop 5. Perform basic fitting operations used in the workshop practices 6. Carryout maintenance of tools and machines 7. Identify the hydraulic and pneumatic components in agricultural machinery 8. Perform Cutting job 9. Perform surface finishing operations on the given job 10. Perform Drilling Machine Operations 11. Perform Metal / Bench Work 12. Produce sheet metal components using various sheet metal operations 13. Use tillage implements
Purpose of Assessment	Summative Assessment
Candidate Details	Name: _____ _____ Registration/Roll Number: _____ Signature: _____
Assessment Outcome	<div style="display: flex; justify-content: space-around; align-items: flex-start;"> <div style="text-align: center;"> COMPETENT <input type="checkbox"/> </div> <div style="text-align: center;"> NOT YET COMPETENT <input type="checkbox"/> </div> </div> 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		A) Inspect and Rectify the cultivator having faults as under <ul style="list-style-type: none"> • Broken frame • Worn out tines B) Attach and use of implements as under <ul style="list-style-type: none"> • Reversible Mould Board plough • Rear blade 			
During the practical assessment, candidate demonstrated the following:		Yes	No	Remarks	
1.	Dis mental cultivator by using appropriate tools				
2.	Make a grove with disc grinder on crack of frame				
3.	Weld the frame with Electric Welding by using proper rod and current				
4.	Finish the weld area with Hand Grinders				
5.	Repaint the Repair area				
6.	Reassemble the cultivators by using new times blades with proper Tools ,Hardware and Torque				
7.	Select appropriate category balls and fix in lower links				
8.	Start tractor as per sop				
9.	Align the tractor with MOULD board plough				
10.	Select position control at hydraulic quadrant				
11.	Attach MOULD board plough with left lower link with the help of position control lever				
12.	Attach MOULD board plough with right lower link with the help of leveling box				

13.	Attach MOULD board plough with top link			
14.	In field select and adjust Ploughing depth with position control lever			
15.	Use the MOULD board plough in field by using draft control hydraulic system.			
16.	Select appropriate category balls and fix in lower links			
17.	Start tractor as per sop			
18.	Align the tractor with rear blade			
19.	Select position control at hydraulic quadrant			
20.	Attach rear blade with left lower link with the help of position control lever			
21.	Attach rear blade with right lower link with the help of leveling box			
22.	Attach rear blade with top link			
23.	In field select and adjust Ploughing depth with position control lever			
24.	Use the rear blade in field by using draft control hydraulic system.			
Competent <input type="checkbox"/>		Not Yet Competent <input type="checkbox"/>		

Knowledge Assessment

Qualification	Agricultural Machinery helper (Level-2)
Competency Standard	<ol style="list-style-type: none"> 1. Carry out basic marking operations in the workshop 2. Use components different types of tools and equipment in the workshop 3. Perform precision measurements on various components 4. Use different type of fastening and locking devices in the workshop 5. Perform basic fitting operations used in the workshop practices 6. Carryout maintenance of tools and machines 7. Identify the hydraulic and pneumatic components in agricultural machinery 8. Perform Cutting job 9. Perform surface finishing operations on the given job 10. Perform Drilling Machine Operations 11. Perform Metal / Bench Work 12. Produce sheet metal components using various sheet metal operations 13. Use tillage implements
Purpose of Assessment	Summative 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.	Name the 5 common types of spanners and pliers.		

2.	What are the common types of pitch gauge ?		
3.	How much torque is required for cultivator hardware?		
4.	What are the post checks after the completion of job?		
5.	How much air pressure is required in tractor tyres for cultivation?		
6.	What is the recommended Engine RPM for cultivation?		

7.	Which lever of hydraulic is used during cultivation?		
8.	What is difference between chisel and RMB?		

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