

Instruction Sheet for the Candidate

Qualification	Agricultural Machinery Technician (AMT) Level-04
Competency Standard	<ol style="list-style-type: none"> 1. Conduct Field survey 2. Perform Shaper, Slotter Machining Operations 3. Perform welding and soldering process on the given work piece 4. Maintain Fuel Supply System 5. Maintain Brake system 6. Maintain Lubrication System 7. Maintain Steering System 8. Maintain Electrical System 9. Maintain Grain Grader 10. Maintain sprayer 11. Maintain land preparation implements 12. Maintain sowing and planting implements 13. Operate / Maintain Mowers and Forage Harvester 14. Operate / Maintain Reaper 15. Operate / Maintain Digger 16. Operate Plant Protection (PP) 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 08 Hrs. time frame (for practical demonstration & assessment):</p> <p>Task-A Conduct field survey and land preparation to develop the field for arable cultivation.</p> <p>Task-B Plant maize seed with suitable seed planter after seed bed preparation</p>
Time: 08 Hrs.	During a practical assessment, under observation by an assessor, you are required to
Minimum Evidence Required	<p>Task-A</p> <p>Conduct field survey and land preparation to develop the field for arable cultivation.</p> <ol style="list-style-type: none"> 1. Select survey equipments according to observed field conditions. 2. Inspect the survey equipments for the proper working, 3. Adjust the equipments according the requirement. 4. Repair or replace any parts if required.

	<ol style="list-style-type: none"> 5. Complete the Land/field survey accordingly. 6. Prepare the survey field map 7. Conduct levelling according to prepared survey field map. 8. Remove all selected survey equipments from field and restore on proper place 9. After successful field survey, select suitable implement for land preparation according to the field conditions/crop requirement. 10. Inspect the selected implements for their proper field operation. 11. Repair or replace any part of implements if required. 12. Adjust the implements according to the task requirement. 13. Prepare the land suitable for the further required field operation. <p>Task-B</p> <p>Plant maize seed with suitable seed planter after seed bed preparation</p> <ol style="list-style-type: none"> 1. Select cultivator for seed bed preparation of maize crop. 2. Inspect the implement for their proper working. 3. Repair or replace any part of implement if required 4. Adjust the implement according to prevailing condition. 5. Attach 3-point linkage system with cultivator. 6. Prepare the seed bed suitable for the further field operation of planting. 7. Select the suitable planter for maize. 8. Inspect the components of planter. 9. Attach planter with the 3-point linkage 10. Calibrate the planter accordingly. 11. Adjust the desired depth for seed dropping. 12. Operate the planter at recommended RPM for uniform and regular dropping of seeds.
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Self-Assessment Checklist

Candidate Name	
Registration No.	
Qualification	Agricultural Machinery Technician (AMT) Level-04
Competency Standard	<ol style="list-style-type: none"> 1. Conduct Field survey 2. Perform Shaper, Slotter Machining Operations 3. Perform welding and soldering process on the given work piece 4. Maintain Fuel Supply System 5. Maintain Brake system 6. Maintain Lubrication System 7. Maintain Steering System 8. Maintain Electrical System 9. Maintain Grain Grader 10. Maintain sprayer 11. Maintain land preparation implements 12. Maintain sowing and planting implements 13. Operate / Maintain Mowers and Forage Harvester 14. Operate / Maintain Reaper 15. Operate / Maintain Digger 16. Operate Plant Protection (PP) implements
Purpose of Assessment	Summative Assessment
Assessment Task	<p>Task-A Conduct field survey and land preparation to develop the field for arable cultivation.</p> <p>Task-B Plant maize seed with suitable seed planter after seed bed preparation</p>

I can.....

Performance Criteria	Yes	No
1. Select survey equipments according to observed field conditions.	<input type="checkbox"/>	<input type="checkbox"/>
2. Inspect the survey equipments for the proper working,	<input type="checkbox"/>	<input type="checkbox"/>
3. Adjust the survey equipments according the requirement.	<input type="checkbox"/>	<input type="checkbox"/>
4. Repair or replace any parts of survey equipments if required.	<input type="checkbox"/>	<input type="checkbox"/>
5. Complete the Land/field survey accordingly.	<input type="checkbox"/>	<input type="checkbox"/>
6. Prepare the survey field map	<input type="checkbox"/>	<input type="checkbox"/>
7. Conduct levelling according to prepared survey field map.	<input type="checkbox"/>	<input type="checkbox"/>

8. Remove all selected survey equipments from field and restore on proper place	<input type="checkbox"/>	<input type="checkbox"/>
9. Select suitable implement for land preparation according to the field conditions/crop requirement.	<input type="checkbox"/>	<input type="checkbox"/>
10. Prepare the land suitable for the further required field operation	<input type="checkbox"/>	<input type="checkbox"/>
11. Inspect the cultivator for their proper working.	<input type="checkbox"/>	<input type="checkbox"/>
12. Repair or replace any part of cultivator if required	<input type="checkbox"/>	<input type="checkbox"/>
13. Adjust the cultivator according to prevailing condition.	<input type="checkbox"/>	<input type="checkbox"/>
14. Attach 3-point linkage system with cultivator.	<input type="checkbox"/>	<input type="checkbox"/>
15. Prepare the seed bed suitable for the further field operation of planting.	<input type="checkbox"/>	<input type="checkbox"/>
16. Select the suitable planter for maize.	<input type="checkbox"/>	<input type="checkbox"/>
17. Inspect the components of planter.	<input type="checkbox"/>	<input type="checkbox"/>
18. Attach planter with the 3-point linkage	<input type="checkbox"/>	<input type="checkbox"/>
19. Calibrate the planter accordingly.	<input type="checkbox"/>	<input type="checkbox"/>
20. Adjust the desired depth for seed dropping.	<input type="checkbox"/>	<input type="checkbox"/>
21. Operate the planter at recommended RPM for uniform and regular dropping of seeds.	<input type="checkbox"/>	<input type="checkbox"/>

Candidate's Signature _____ Assessor's Signature _____

Date: _____

Assessors Judgment Guide

Qualification	Agricultural Machinery Technician (AMT) Level-04
Competency Standard	<ol style="list-style-type: none"> 1. Conduct Field survey 2. Perform Shaper, Slotter Machining Operations 3. Perform welding and soldering process on the given work piece 4. Maintain Fuel Supply System 5. Maintain Brake system 6. Maintain Lubrication System 7. Maintain Steering System 8. Maintain Electrical System 9. Maintain Grain Grader 10. Maintain sprayer 11. Maintain land preparation implements 12. Maintain sowing and planting implements 13. Operate / Maintain Mowers and Forage Harvester 14. Operate / Maintain Reaper 15. Operate / Maintain Digger 16. Operate Plant Protection (PP) implements
Purpose of Assessment	Summative 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	<p>Task-A Conduct field survey and land preparation to develop the field for arable cultivation.</p> <p>Task-B Plant maize seed with suitable seed planter after seed bed preparation</p>			
During the practical assessment, candidate demonstrated the following:		Yes	No	Remarks
1.	Select survey equipments according to observed field conditions.			
2.	Inspect the survey equipments for the proper working,			
3.	Adjust the survey equipments according the requirement.			
4.	Repair or replace any parts of survey equipments if required.			
5.	Complete the Land/field survey accordingly.			
6.	Prepare the survey field map			
7.	Conduct levelling according to prepared survey field map.			
8.	Remove all selected survey equipments from field and restore on proper place			
9.	Select suitable implement for land preparation according to the field conditions/crop requirement.			
10.	Prepare the land suitable for the further required field operation			
11.	Inspect the cultivator for their proper working.			
12.	Repair or replace any part of cultivator if required			
13.	Adjust the cultivator according to prevailing condition.			
14.	Attach 3-point linkage system with cultivator.			
15.	Prepare the seed bed suitable for the further field operation of planting.			
16.	Select the suitable planter for maize.			
17.	Inspect the components of planter.			
18.	Attach planter with the 3-point linkage			
19.	Calibrate the planter accordingly.			
20.	Adjust the desired depth for seed dropping.			
21.	Operate the planter at recommended RPM for uniform and regular dropping of seeds.			
Competent <input type="checkbox"/>		Not Yet Competent <input type="checkbox"/>		

Knowledge Assessment

Qualification	Information Communication Technology (ICT) Level-5
Competency Standard	<ol style="list-style-type: none"> 1. Conduct Field survey 2. Perform Shaper, Slotter Machining Operations 3. Perform welding and soldering process on the given work piece 4. Maintain Fuel Supply System 5. Maintain Brake system 6. Maintain Lubrication System 7. Maintain Steering System 8. Maintain Electrical System 9. Maintain Grain Grader 10. Maintain sprayer 11. Maintain land preparation implements 12. Maintain sowing and planting implements 13. Operate / Maintain Mowers and Forage Harvester 14. Operate / Maintain Reaper 15. Operate / Maintain Digger 16. Operate Plant Protection (PP) implements
Purpose of Assessment	Summative Assessment
Candidate Details	Name: _____ Registration/Roll Number: _____ Candidate Signature: _____
Assessment Outcome	COMPETENT <input type="checkbox"/> NOT YET COMPETENT <input type="checkbox"/> 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.	State any two differences between conventional and precision LASER land leveling?		

2.	Name the four parts of LASER land Leveler?		
3.	What is difference between seed drill and planter?		
4.	What is the benefit of calibration of planter?		
5.	What are the safety measures for operation of plant protection equipments?		
6.	Name the seed preparation implements?		

Feedback to the Candidate

Candidate's Signature _____ Assessor's Signature _____