

## Instruction Sheet for the Candidate

<b>Qualification</b>	Agricultural Machinery Mechanic (Level-5)
<b>Competency Standard</b>	Maintain Grain Dryer
<b>Purpose of Assessment</b>	Formative Assessment
<b>Candidate Details</b>	Name _____ Registration/Roll Number _____
<b>Guidance for Candidate</b>	<p><b>To meet this standard, you are required to complete the following within 02 Hrs. time frame (for practical demonstration &amp; assessment):</b></p> <ul style="list-style-type: none"> <li>• Identify Grain Dryer Types</li> <li>• Maintain Electric Dryer</li> <li>• Maintain Solar Photovoltaic (PV) Dryers</li> </ul>
<b>Time: 02 Hrs.</b>	During a practical assessment, under observation by an assessor, you are required to
<b>Minimum Evidence Required</b>	<p><b>Identify Grain Dryer Types</b></p> <ol style="list-style-type: none"> <li>1. Select appropriate grain dryer with respect to specified grain type</li> <li>2. Select appropriate grain dryer with respect to specified environment conditions</li> </ol> <p><b>Maintain Electric Dryer</b></p> <ol style="list-style-type: none"> <li>1. Check major components electric dryer.</li> <li>2. Perform weekly maintenance of electric dryer.</li> <li>3. Clean screens with water.</li> <li>4. Maintain blower system.</li> <li>5. Maintain the speed of blower according to grain requirement.</li> <li>6. Calibrate moisture sensor accordingly grain requirement.</li> <li>7. Clean the sensor with soft cloth on daily basis.</li> </ol> <p><b>Maintain Solar Photovoltaic (PV) Dryers</b></p> <ol style="list-style-type: none"> <li>1. Check major components of solar dryer (PV Fan, Air collector, drying chamber with air ducts, chimney)</li> <li>2. Adjust solar energy collector at angle facing due south equal to latitude.</li> <li>3. Check air collector insulation for leakage</li> <li>4. Check the dryer frame for its alignment</li> <li>5. Check drying chamber well insulated air tight</li> <li>6. Check collector plate absorber painted matt black</li> <li>7. Ensure that glass cover, collector absorber and PV fan module is free from dust</li> <li>8. Check wear and tear and leakages of glass and dryer frame</li> </ol>

	Repair wear and tear of glass and frame (if required) Maintain blower speed according to requirement of grain
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## Self-Assessment Checklist

<b>Candidate Name</b>	
<b>Registration No.</b>	
<b>Qualification</b>	Agricultural Machinery Mechanic (Level-5)
<b>Competency Standard</b>	Maintain Grain Dryer
<b>Purpose of Assessment</b>	Formative Assessment
<b>Assessment Task</b>	<ul style="list-style-type: none"> <li>Identify Grain Dryer Types</li> <li>Maintain Electric Dryer</li> <li>Maintain Solar Photovoltaic (PV) Dryers</li> </ul>

I can.....

Performance Criteria	Yes	No
1. Select appropriate grain dryer with respect to specified grain type	<input type="checkbox"/>	<input type="checkbox"/>
2. Select appropriate grain dryer with respect to specified environment conditions	<input type="checkbox"/>	<input type="checkbox"/>
3. Check major components electric dryer.	<input type="checkbox"/>	<input type="checkbox"/>
4. Perform weekly maintenance of electric dryer.	<input type="checkbox"/>	<input type="checkbox"/>
5. Clean screens with water.	<input type="checkbox"/>	<input type="checkbox"/>
6. Maintain blower system.	<input type="checkbox"/>	<input type="checkbox"/>
7. Maintain the speed of blower according to grain requirement.	<input type="checkbox"/>	<input type="checkbox"/>
8. Calibrate moisture sensor accordingly grain requirement.	<input type="checkbox"/>	<input type="checkbox"/>
9. Clean the sensor with soft cloth on daily basis.	<input type="checkbox"/>	<input type="checkbox"/>
10. Check major components of solar dryer (PV Fan, Air collector, drying chamber with air ducts, chimney)	<input type="checkbox"/>	<input type="checkbox"/>
11. Adjust solar energy collector at angle facing due south equal to latitude.	<input type="checkbox"/>	<input type="checkbox"/>
12. Check air collector insulation for leakage	<input type="checkbox"/>	<input type="checkbox"/>
13. Check the dryer frame for its alignment	<input type="checkbox"/>	<input type="checkbox"/>

14. Check drying chamber well insulated air tight	<input type="checkbox"/>	<input type="checkbox"/>
15. Check collector plate absorber painted matt black	<input type="checkbox"/>	<input type="checkbox"/>
16. Ensure that glass cover, collector absorber and PV fan module is free from dust	<input type="checkbox"/>	<input type="checkbox"/>
17. Check wear and tear and leakages of glass and dryer frame	<input type="checkbox"/>	<input type="checkbox"/>
18. Repair wear and tear of glass and frame (if required)	<input type="checkbox"/>	<input type="checkbox"/>
19. Maintain blower speed according to requirement of grain	<input type="checkbox"/>	<input type="checkbox"/>

Candidate's Signature \_\_\_\_\_ Assessor's Signature \_\_\_\_\_

Date: \_\_\_\_\_

## Assessors Judgment Guide

<b>Qualification</b>	Agricultural Machinery Mechanic (Level-5)
<b>Competency Standard</b>	Maintain Grain Dryer
<b>Purpose of Assessment</b>	Formative Assessment
<b>Candidate Details</b>	Name: _____ Registration/Roll Number: _____ Signature: _____
<b>Assessment Outcome</b>	<div style="display: flex; justify-content: space-around; align-items: center;"> <span>COMPETENT <input type="checkbox"/></span> <span>NOT YET COMPETENT <input type="checkbox"/></span> </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	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
Knowledge Assessment	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
Other Requirement	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		

## Observation Checklist

Assessment Task		<ul style="list-style-type: none"> <li>Identify Grain Dryer Types</li> <li>Maintain Electric Dryer</li> <li>Maintain Solar Photovoltaic (PV) Dryers</li> </ul>		
During the practical assessment, candidate demonstrated the following:		Yes	No	Remarks
1.	Select appropriate grain dryer with respect to specified grain type			
2.	Select appropriate grain dryer with respect to specified environment conditions			
3.	Check major components electric dryer.			
4.	Perform weekly maintenance of electric dryer.			
5.	Clean screens with water.			
6.	Maintain blower system.			
7.	Maintain the speed of blower according to grain requirement.			
8.	Calibrate moisture sensor accordingly grain requirement.			
9.	Clean the sensor with soft cloth on daily basis.			
10.	Check major components of solar dryer (PV Fan, Air collector, drying chamber with air ducts, chimney)			
11.	Adjust solar energy collector at angle facing due south equal to latitude.			
12.	Check air collector insulation for leakage			
13.	Check the dryer frame for its alignment			
14.	Check drying chamber well insulated air tight			
15.	Check collector plate absorber painted matt black			

16.	Ensure that glass cover, collector absorber and PV fan module is free from dust			
17.	Check wear and tear and leakages of glass and dryer frame			
18.	Repair wear and tear of glass and frame (if required)			
19.	Maintain blower speed according to requirement of grain			
Competent <input type="checkbox"/>		Not Yet Competent <input type="checkbox"/>		

## Knowledge Assessment

<b>Qualification</b>	Agricultural Machinery Mechanic (Level-5)
<b>Competency Standard</b>	Maintain Grain Dryer
<b>Purpose of Assessment</b>	Formative Assessment
<b>Candidate Details</b>	Name: _____ Registration/Roll Number: _____ Candidate Signature: _____
<b>Assessment Outcome</b>	<div style="display: flex; justify-content: space-around; align-items: center;"> <span><b>COMPETENT</b> <input type="checkbox"/></span> <span><b>NOT YET COMPETENT</b> <input type="checkbox"/></span> </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.	What does hybrid dryer mean?		
2.	What are main process of dryer?		
3.	What is ambient moisture for maize storage?		



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