

Instruction Sheet for the Candidate

Qualification	Tunnel Farming, Greenhouse & Agribusiness(Level-5)
Competency Standard	Identify Produce Maturity
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 time frame (for practical demonstration & assessment):</p> <ol style="list-style-type: none"> 1. Prepare materials to Identify produce maturity 2. Identify maturity indices 3. Identify physiological maturity 4. Identify Commercial maturity
Time: 03 Hrs.	<p>During a practical assessment, under observation by an assessor, you are required to :</p> <p>1. Prepare materials to Identify produce maturity</p> <ul style="list-style-type: none"> • Select appropriate time for identification of produced maturity as per recommendation • Identify and arrange requisite tools and equipment as per the job requirements • Prepare a plan for the required task • Select and use required Personal Protective Equipment (PPE) as per the recommendation <p>2. Identify maturity indices</p> <ul style="list-style-type: none"> • Identify the indices to determine the produce maturity as per the crop and recommended standards • Identify the appropriate stage of maturity and ripening to avoid possible disorders to the produce as per the set criteria • Identify proper harvesting time to increase the shelf life of the produce as per the crop requirement • Check physical parameters (size, shape, color, appearances, texture and lenticel number as per the requirements • Check chemical parameters (specific gravity, starch content, total soluble solids, sugar to acid ratio and oil content) as per
Minimum Evidence Required	

	<p>standard</p> <ul style="list-style-type: none"> Identify organoleptic properties for maturity as per the recommendation <p>3. Identify physiological maturity</p> <ul style="list-style-type: none"> Identify the appropriate stage for recording physiological maturity of each crop as per the recommendation Identify the indices to determine the physiological maturity as per the crop and recommended standards. Distinguish the physiological maturity of climacteric and non-climacteric fruits and vegetables as per the criteria Maintain the data record as per the recommendation Follow health and safety rules <p>4. Identify Commercial maturity</p> <ul style="list-style-type: none"> Identify the appropriate time/stage for recording commercial maturity as per the crop and market recommended standards Identify the indices to determine the commercial maturity as per the crop and market recommended standards Distinguish the commercial maturity of climacteric and non-climacteric fruits and vegetables as per the criteria Maintain records Follow health and safety rules
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Self-Assessment Checklist

Candidate Name	
Registration No.	
Qualification	Tunnel Farming, Greenhouse & Agribusiness (Level-5)
Competency Standard	Identify Produce Maturity
Purpose of Assessment	Formative Assessment
Assessment Task	<ol style="list-style-type: none"> 1. Prepare materials to Identify produce maturity 2. Identify maturity indices 3. Identify physiological maturity 4. Identify Commercial maturity

I can.....

Performance Criteria	Yes	No
1. Select appropriate time for identification of produced maturity as per recommendation	<input type="checkbox"/>	<input type="checkbox"/>
2. Identify and arrange requisite tools and equipment as per the job requirements	<input type="checkbox"/>	<input type="checkbox"/>
3. Prepare a plan for the required task	<input type="checkbox"/>	<input type="checkbox"/>
4. Select and use required Personal Protective Equipment (PPE) as per the recommendation	<input type="checkbox"/>	<input type="checkbox"/>
5. Identify the indices to determine the produce maturity as per the crop and recommended standards	<input type="checkbox"/>	<input type="checkbox"/>
6. Identify the appropriate stage of maturity and ripening to avoid possible disorders to the produce as per the set criteria	<input type="checkbox"/>	<input type="checkbox"/>
7. Identify proper harvesting time to increase the shelf life of the produce as per the crop requirement	<input type="checkbox"/>	<input type="checkbox"/>
8. Check physical parameters (size, shape, color, appearances, texture and lenticel number as per the requirements	<input type="checkbox"/>	<input type="checkbox"/>
9. Check chemical parameters (specific gravity, starch content, total soluble solids, sugar to acid ratio and oil content) as per standard	<input type="checkbox"/>	<input type="checkbox"/>
10. Identify organoleptic properties for maturity as per the recommendation	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>
11. Identify the appropriate stage for recording physiological maturity of each crop as per the recommendation	<input type="checkbox"/>	<input type="checkbox"/>
12. Identify the indices to determine the physiological maturity as per the crop and recommended standards.	<input type="checkbox"/>	<input type="checkbox"/>
13. Distinguish the physiological maturity of climacteric and non-climacteric fruits and vegetables as per the criteria	<input type="checkbox"/>	<input type="checkbox"/>
14. Maintain the data record as per the recommendation	<input type="checkbox"/>	<input type="checkbox"/>
15. Follow health and safety rules	<input type="checkbox"/>	<input type="checkbox"/>
16. Identify the appropriate time/stage for recording commercial maturity as per the crop and market recommended standards	<input type="checkbox"/>	<input type="checkbox"/>
17. Identify the indices to determine the commercial maturity as per the crop and market recommended standards	<input type="checkbox"/>	<input type="checkbox"/>
18. Distinguish the commercial maturity of climacteric and non-	<input type="checkbox"/>	<input type="checkbox"/>

climacteric fruits and vegetables as per the criteria		
19. Maintain records	<input type="text"/>	<input type="text"/>
20. Follow health and safety rules	<input type="text"/>	<input type="text"/>

Candidate's Signature_____ Assessor's Signature_____

Date: _____

Assessors Judgment Guide

Qualification	Tunnel Farming, Greenhouse & Agribusiness(Level-5)
Competency Standard	Identify Produce Maturity
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		1. Prepare materials to Identify produce maturity 2. Identify maturity indices 3. Identify physiological maturity 4. Identify Commercial maturity		
During the practical assessment, candidate demonstrated the following:		Yes	No	Remarks
1.	Select appropriate time for identification of produced maturity as per recommendation	<input type="checkbox"/>	<input type="checkbox"/>	
2.	Identify and arrange requisite tools and equipment as per the job requirements	<input type="checkbox"/>	<input type="checkbox"/>	
3.	Prepare a plan for the required task	<input type="checkbox"/>	<input type="checkbox"/>	
4.	Select and use required Personal Protective Equipment (PPE) as per the recommendation	<input type="checkbox"/>	<input type="checkbox"/>	
5.	Identify the indices to determine the produce maturity as per the crop and recommended standards	<input type="checkbox"/>	<input type="checkbox"/>	
6.	Identify the appropriate stage of maturity and ripening to avoid possible disorders to the produce as per the set criteria	<input type="checkbox"/>	<input type="checkbox"/>	
7.	Identify proper harvesting time to increase the shelf life of the produce as per the crop requirement	<input type="checkbox"/>	<input type="checkbox"/>	
8.	Check physical parameters (size, shape, color, appearances, texture and lenticel number as per the requirements	<input type="checkbox"/>	<input type="checkbox"/>	
9.	Check chemical parameters (specific gravity, starch content, total soluble solids, sugar to acid ratio and oil content) as per standard	<input type="checkbox"/>	<input type="checkbox"/>	
10.	Identify organoleptic properties for maturity as per the recommendation	<input type="checkbox"/>	<input type="checkbox"/>	
11.	Identify the appropriate stage for recording physiological maturity of each crop as per the recommendation	<input type="checkbox"/>	<input type="checkbox"/>	

12.	Identify the indices to determine the physiological maturity as per the crop and recommended standards.	<input type="text"/>	<input type="text"/>	
13.	Distinguish the physiological maturity of climacteric and non-climacteric fruits and vegetables as per the criteria	<input type="text"/>	<input type="text"/>	
14.	Maintain the data record as per the recommendation	<input type="text"/>	<input type="text"/>	
15.	Follow health and safety rules	<input type="text"/>	<input type="text"/>	
16.	Identify the appropriate time/stage for recording commercial maturity as per the crop and market recommended standards	<input type="text"/>	<input type="text"/>	
17.	Identify the indices to determine the commercial maturity as per the crop and market recommended standards	<input type="text"/>	<input type="text"/>	
18.	Distinguish the commercial maturity of climacteric and non-climacteric fruits and vegetables as per the criteria	<input type="text"/>	<input type="text"/>	
19.	Maintain records	<input type="text"/>	<input type="text"/>	
20.	Follow health and safety rules	<input type="text"/>	<input type="text"/>	
Competent <input type="checkbox"/>		Not Yet Competent <input type="checkbox"/>		

Knowledge Assessment

Qualification	Tunnel Farming, Greenhouse & Agribusiness(Level-5)
Competency Standard	Identify Produce Maturity
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.	Enlist the indices to determine the produce maturity?		
2.	Differentiate between the physiological maturity and commercial maturity?		
3.	Which indices are used to determine the physiological maturity?		

4.	Which indices are used to determine the commercial maturity?		
5.	Describe the parameters to identify the proper stage of maturity of produce?		
	How will you determine the proper harvesting time to avoid the post-losses of the produce?		

Feedback to the Candidate	

Candidate's Signature_____ **Assessor's Signature** _____