

Self-Assessment Checklist

Candidate Name	
Registration No.	
Qualification	National Vocational Certificate level 2 to 5, in Agriculture Sector (Soil, water and fertilizer testing lab technician)
Competency Standards	Prepare Culture Media
Assessment Task	Prepare Culture Media for soil, water and fertilizer sample analysis

I can.....

Performance Criteria	Yes	No
1. Follow proper safety precautions to handle laboratory equipment and harmful chemicals	<input type="checkbox"/>	<input type="checkbox"/>
2. Disinfect laboratory tools and equipment as per standards	<input type="checkbox"/>	<input type="checkbox"/>
3. Use relevant laboratory glassware and equipment as per requirement of specific test	<input type="checkbox"/>	<input type="checkbox"/>
4. Clean and re-place glassware and equipment as per SOPs	<input type="checkbox"/>	<input type="checkbox"/>
5. Mix media ingredients in solvent as per procedure	<input type="checkbox"/>	<input type="checkbox"/>
6. Label media to ensure tracking	<input type="checkbox"/>	<input type="checkbox"/>
7. Pour media into vessels as required	<input type="checkbox"/>	<input type="checkbox"/>
8. Cover the Media as per procedure	<input type="checkbox"/>	<input type="checkbox"/>
9. Load sterilizers (autoclave) as per its capacity	<input type="checkbox"/>	<input type="checkbox"/>
10. Ensure fixation of sterilization unit as per requirement	<input type="checkbox"/>	<input type="checkbox"/>
11. Monitor sterilization process as per procedure	<input type="checkbox"/>	<input type="checkbox"/>
12. Add necessary additives before pouring as per procedure	<input type="checkbox"/>	<input type="checkbox"/>
13. Pour media in specified container (Petri dish) under aseptic condition	<input type="checkbox"/>	<input type="checkbox"/>
14. Label media according to its composition and batch	<input type="checkbox"/>	<input type="checkbox"/>
15. Store media at required temperature	<input type="checkbox"/>	<input type="checkbox"/>

Candidate's Signature _____

Assessor's Signature _____

Date: _____

Instruction Sheet for the Candidate

Qualification	National Vocational Certificate level 2 to 5, in Agriculture Sector (Soil, water and fertilizer testing lab technician)
Competency Standard(s)	Perform humic acid contents in soil fertilizer by gravimetric method
Candidate Details	Name _____ Registration/Roll Number _____
Guidance for Candidate	To meet this standard, you are required to complete the following within the given time frame (for practical demonstration & assessment): Analyze the Humic acid sample for the quality assessment of the fertilizer
Time:240 Mins	During a practical assessment, under observation by an assessor, you are required to Analyze the Humic acid sample for the quality assessment of the fertilizer Demonstrate the following criteria: <ol style="list-style-type: none"> 1. Follow proper safety precautions to handle laboratory equipment and harmful chemicals 2. Disinfect laboratory tools and equipment as per standards 3. Use relevant laboratory glassware and equipment as per requirement of specific test

Minimum Evidence Required	<ol style="list-style-type: none"> 4. Clean and re-place glassware and equipment as per SOPs 5. Mix media ingredients in solvent as per procedure 6. Label media to ensure tracking 7. Pour media into vessels as required 8. Cover the Media as per procedure 9. Load sterilizers (autoclave) as per its capacity 10. Ensure fixation of sterilization unit as per requirement 11. Monitor sterilization process as per procedure 12. Add necessary additives before pouring as per procedure 13. Pour media in specified container (Petri dish) under aseptic condition 14. Label media according to its composition and batch 15. Store media at required temperature
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Assessors Judgment Guide

Qualification	National Vocational Certificate level 2 to 5, in Agriculture Sector (Soil, water and fertilizer testing lab technician)
Competency Standard(s)	Perform humic acid contents in soil fertilizer by gravimetric method
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	Analyze the Humic acid sample for the quality assessment of the fertilizer			
During the practical assessment, candidate demonstrated the following:		Yes	No	Remarks
1.	Follow proper safety precautions to handle laboratory equipment and harmful chemicals			
2.	Disinfect laboratory tools and equipment as per standards			
3.	Use relevant laboratory glassware and equipment as per requirement of specific test			

4.	Clean and re-place glassware and equipment as per SOPs			
5.	Mix media ingredients in solvent as per procedure			
6.	Label media to ensure tracking			
7.	Pour media into vessels as required			
8.	Cover the Media as per procedure			
9.	Load sterilizers (autoclave) as per its capacity			
10.	Ensure fixation of sterilization unit as per requirement			
11.	Monitor sterilization process as per procedure			
12.	Add necessary additives before pouring as per procedure			
13.	Pour media in specified container (Petri dish) under aseptic condition			
14.	Label media according to its composition and batch			
15.	Store media at required temperature			
Competent <input type="checkbox"/>		Not Yet Competent <input type="checkbox"/>		

Feedback to the Candidate

Candidate's Signature _____	Assessor's Signature _____