

## Self-Assessment Checklist

<b>Candidate Name</b>	
<b>Registration No.</b>	
<b>Qualification</b>	National Vocational Certificate level 2 to 5, in Agriculture Sector (Soil, water and fertilizer testing lab technician)
<b>Competency Standards</b>	Perform humic acid contents in soil fertilizer by gravimetric method
<b>Assessment Task</b>	Analyze the Humic acid sample for the quality assessment of the fertilizer

I can.....

<b>Performance Criteria</b>	<b>Yes</b>	<b>No</b>
1. Check sample label for required test.	<input type="checkbox"/>	<input type="checkbox"/>
2. Maintain Laboratory room temperature as per requirement.	<input type="checkbox"/>	<input type="checkbox"/>
3. Arrange equipment as per requirement.	<input type="checkbox"/>	<input type="checkbox"/>
4. Check for availability of standard solution as per requirement.	<input type="checkbox"/>	<input type="checkbox"/>
5. Conduct pre-use and safety checks.	<input type="checkbox"/>	<input type="checkbox"/>
6. Prepare sample according to requirement	<input type="checkbox"/>	<input type="checkbox"/>
7. Weight sample according to requirement	<input type="checkbox"/>	<input type="checkbox"/>
8. Add extraction solution and shake the contents as per SOP.	<input type="checkbox"/>	<input type="checkbox"/>
9. Process sample as per standard testing method.	<input type="checkbox"/>	<input type="checkbox"/>
10. Record weight of precipitates as per SOP.	<input type="checkbox"/>	<input type="checkbox"/>
11. Perform calculations according to standard testing method.	<input type="checkbox"/>	<input type="checkbox"/>
12. Store unused reagents and dispose of wastes as required by relevant regulations and codes.	<input type="checkbox"/>	<input type="checkbox"/>
13. Clean and store equipment as per lab protocol	<input type="checkbox"/>	<input type="checkbox"/>
14. Run laboratory control samples as per standard.	<input type="checkbox"/>	<input type="checkbox"/>
15. Perform replicate/re-testing as per lab standards.	<input type="checkbox"/>	<input type="checkbox"/>
16. Record quality control data as per lab procedure.	<input type="checkbox"/>	<input type="checkbox"/>
17. Prepare quality control charts of quality assurance activities according to lab procedure	<input type="checkbox"/>	<input type="checkbox"/>
18. Always used valid standards	<input type="checkbox"/>	<input type="checkbox"/>
19. Note down the results on analyst workbook.	<input type="checkbox"/>	<input type="checkbox"/>
20. Perform detail calculations	<input type="checkbox"/>	<input type="checkbox"/>

21. Submit the results to lab In-charge	<input type="text"/>	<input type="text"/>
22. Ensure calibration before taking any measurement as per SOP.	<input type="text"/>	<input type="text"/>
23. Ensure complete desiccation of K-humate sample	<input type="text"/>	<input type="text"/>
24. Perform dilutions if required	<input type="text"/>	<input type="text"/>
25. Ensure safety protocols as per standard requirement.	<input type="text"/>	<input type="text"/>

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

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

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

## Instruction Sheet for the Candidate

<b>Qualification</b>	<b>National Vocational Certificate level 2 to 5, in Agriculture Sector (Soil, water and fertilizer testing lab technician)</b>
<b>Competency Standard(s)</b>	Perform humic acid contents in soil fertilizer by gravimetric method
<b>Candidate Details</b>	Name _____ Registration/Roll Number _____
<b>Guidance for Candidate</b>	<b>To meet this standard, you are required to complete the following within the given time frame (for practical demonstration &amp; assessment):</b>  Analyze the Humic acid sample for the quality assessment of the fertilizer
<b>Time:240 Mins</b>	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"> <li>1. Check sample label for required test.</li> <li>2. Maintain laboratory room temperature as per requirement.</li> <li>3. Arrange equipment as per requirement.</li> <li>4. Check for availability of standard solution as per requirement.</li> <li>5. Conduct pre-use and safety checks.</li> <li>6. Prepare sample according to requirement</li> </ol>

Minimum Evidence Required	<ol style="list-style-type: none"> <li>7. Weight sample of according to requirement</li> <li>8. Add extraction solution and shake the contents as per SOP.</li> <li>9. Process sample as per standard testing method.</li> <li>10. Record weight of precipitates as per SOP.</li> <li>11. Perform calculations according to standard testing method.</li> <li>12. Store unused reagents and dispose of wastes as required by relevant regulations and codes.</li> <li>13. Clean and store equipment as per lab protocol</li> <li>14. Run laboratory control samples as per standard.</li> <li>15. Perform replicate/re-testing as per lab standards.</li> <li>16. Record quality control data as per lab procedure.</li> <li>17. Prepare quality control charts of quality assurance activities according to lab procedure</li> <li>18. Always used valid standards</li> <li>19. Note down the results on analyst workbook.</li> <li>20. Perform detail calculations</li> <li>21. Submit the results to lab In-charge</li> <li>22. Ensure calibration before taking any measurement as per SOP.</li> <li>23. Ensure complete desiccation of K-humate sample</li> <li>24. Perform dilutions if required</li> <li>25. Ensure safety protocols as per standard requirement.</li> </ol>
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## Assessors Judgment Guide

<b>Qualification</b>	National Vocational Certificate level 2 to 5, in Agriculture Sector (Soil, water and fertilizer testing lab technician)
<b>Competency Standard(s)</b>	Perform humic acid contents in soil fertilizer by gravimetric method
<b>Candidate Details</b>	Name: _____ Registration/Roll Number: _____ Signature: _____
<b>Assessment Outcome</b>	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.	Checked sample label for required test.				
2.	Maintained Laboratory room temperature as per requirement.				
3.	Arrange equipment as per requirement.				
4.	Checked for availability of standard solution as per requirement.				

5.	Conducted pre-use and safety checks.			
6.	Prepared sample according to requirement			
7.	Weighed sample of according to requirement			
8.	Added extraction solution and shake the contents as per SOP.			
9.	Processed sample as per standard testing method.			
10.	Recorded weight of precipitates as per SOP.			
11.	Performed calculations according to standard testing method.			
12.	Stored unused reagents and dispose of wastes as required by relevant regulations and codes.			
13.	Cleaned and store equipment as per lab protocol			
14.	Run laboratory control samples as per standard.			
15.	Performed replicate/re-testing as per lab standards.			
16.	Recorded quality control data as per lab procedure.			
17.	Prepared quality control charts of quality assurance activities according to lab procedure			
18.	Always used valid standards			
19.	Noted down the results on analyst workbook.			
20.	Performed detail calculations			
21.	Submitted the results to lab In-charge			
22.	Ensure calibration before taking any measurement as per SOP.			
23.	Ensured complete desiccation of K-humate sample			
24.	Performed dilutions if required			
25.	Ensured safety protocols as per standard requirement.			
Competent <input type="checkbox"/>		Not Yet Competent <input type="checkbox"/>		

### Feedback to the Candidate

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<b>Candidate's Signature</b> _____
<b>Assessor's Signature</b> _____