

## 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>	Prepare Reagents for analysis
<b>Assessment Task</b>	Prepare reagents (buffers, indicators etc.) for soil, water and fertilizer sample analysis

I can.....

<b>Performance Criteria</b>	<b>Yes</b>	<b>No</b>
1. Arrange apparatus and chemicals required for Buffer preparation as per requirement.	<input type="checkbox"/>	<input type="checkbox"/>
2. Make buffer solution as per SOP.	<input type="checkbox"/>	<input type="checkbox"/>
3. Handle buffer solution as per procedure.	<input type="checkbox"/>	<input type="checkbox"/>
4. Store buffer solution as per requirement.	<input type="checkbox"/>	<input type="checkbox"/>
5. Check pH of buffer solutions with defined interval as per lab protocol.	<input type="checkbox"/>	<input type="checkbox"/>
6. Maintain records in lab log books as per lab format	<input type="checkbox"/>	<input type="checkbox"/>
7. Arrange apparatus and chemicals required for indicator preparation as per requirement.	<input type="checkbox"/>	<input type="checkbox"/>
8. Make indicator as per SOP.	<input type="checkbox"/>	<input type="checkbox"/>
9. Handle prepared indicator as per procedure.	<input type="checkbox"/>	<input type="checkbox"/>
10. Store prepared solution as per requirement	<input type="checkbox"/>	<input type="checkbox"/>
11. Maintain records in lab log books as per lab format	<input type="checkbox"/>	<input type="checkbox"/>
12. Arrange apparatus and chemicals required for coloring reagents preparation as per requirement.	<input type="checkbox"/>	<input type="checkbox"/>
13. Make coloring reagent solution as per method.	<input type="checkbox"/>	<input type="checkbox"/>
14. Handle prepared coloring reagent as per lab protocol.	<input type="checkbox"/>	<input type="checkbox"/>
15. Store prepared reagents as per requirement.	<input type="checkbox"/>	<input type="checkbox"/>
16. Maintain records in lab log books as per lab format	<input type="checkbox"/>	<input type="checkbox"/>

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>	Prepare Reagents for analysis
Candidate Details	Name_____ Registration/Roll Number_____
Guidance for Candidate	<b>To meet this standard, you are required to complete the following within the given time frame (for practical demonstration &amp; assessment):</b>  Prepare reagents (buffers, indicators etc.) for soil, water and fertilizer sample analysis
Time:240 Mins	During a practical assessment, under observation by an assessor, you are required to  Prepare reagents (buffers, indicators etc.) for soil, water and fertilizer sample analysis  Demonstrate the following criteria:  <ol style="list-style-type: none"> <li>1. Arrange apparatus and chemicals required for Buffer preparation as per requirement.</li> <li>2. Make buffer solution as per SOP.</li> </ol>

Minimum Evidence Required	<ol style="list-style-type: none"> <li>3. Handle buffer solution as per procedure.</li> <li>4. Store buffer solution as per requirement.</li> <li>5. Check pH of buffer solutions with defined interval as per lab protocol.</li> <li>6. Maintain records in lab log books as per lab format</li> <li>7. Arrange apparatus and chemicals required for indicator preparation as per requirement.</li> <li>8. Make indicator as per SOP.</li> <li>9. Handle prepared indicator as per procedure.</li> <li>10. Store prepared solution as per requirement</li> <li>11. Maintain records in lab log books as per lab format</li> <li>12. Arrange apparatus and chemicals required for coloring reagents preparation as per requirement.</li> <li>13. Make coloring reagent solution as per method.</li> <li>14. Handle prepared coloring reagent as per lab protocol.</li> <li>15. Store prepared reagents as per requirement.</li> <li>16. Maintain records in lab log books as per lab format</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>	Prepare Reagents for analysis
<b>Candidate Details</b>	Name: _____ Registration/Roll Number: _____ Signature: _____
<b>Assessment Outcome</b>	<div> <b>COMPETENT</b> <input type="checkbox"/> <b>NOT YET COMPETENT</b> <input type="checkbox"/> </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			✓				
Knowledge Assessment		✓					
Other Requirement							

### Observation Checklist

Assessment Task	Prepare reagents (buffers, indicators etc.) for soil , water and fertilizer sample analysis						
During the practical assessment, candidate demonstrated the following:			Yes	No	Remarks		
1.	Arranged apparatus and chemicals required for Buffer preparation as per requirement.						
2.	Made buffer solution as per SOP.						
3.	Handled buffer solution as per procedure.						
4.	Stored buffer solution as per requirement.						
5.	Checked pH of buffer solutions with defined interval as per lab protocol.						
6.	Maintained records in lab log books as per lab format						
7.	Arranged apparatus and chemicals required for indicator preparation as per requirement.						
8.	Made indicator as per SOP.						
9.	Handled prepared indicator as per						

	procedure.			
10	Stored prepared solution as per requirement			
11	Maintained records in lab log books as per lab format			
12	Arranged apparatus and chemicals required for coloring reagents preparation as per requirement.			
13	Made coloring reagent solution as per method.			
14	Handled prepared coloring reagent as per lab protocol.			
15	Stored prepared reagents as per requirement.			
16	Maintained records in lab log books as per lab format			
Competent <input type="checkbox"/>		Not Yet Competent <input type="checkbox"/>		

### Feedback to the Candidate

Candidate's Signature_____	Assessor's Signature_____

