

## 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>	Handle Basic Level Equipments
<b>Assessment Task</b>	<b>Calibrate and start operating basic level equipment while working for soil, water and fertilizer analysis in the laboratory. Basic level equipment shall include Analytical Balance, EC meter, Oven, PH meter, shaker, Vortex Mixer, Glass apparatus, Hot plate and magnetic Stirrer.</b>

I can.....

<b>Performance Criteria</b>	<b>Yes</b>	<b>No</b>
1. Clean basic level instruments as per manual instructions	<input type="checkbox"/>	<input type="checkbox"/>
2. Clean Glass apparatus as per protocols	<input type="checkbox"/>	<input type="checkbox"/>
3. Check power supply to the instrument voltage as mentioned in the manual	<input type="checkbox"/>	<input type="checkbox"/>
4. Implement instrument maintenance plan as per given lab procedure	<input type="checkbox"/>	<input type="checkbox"/>
5. Check pre-requisites before turning on the instruments as per given Manual	<input type="checkbox"/>	<input type="checkbox"/>
6. Turn on instrument as per instruction given in manual	<input type="checkbox"/>	<input type="checkbox"/>
7. Implement performance checks as per standard lab procedures	<input type="checkbox"/>	<input type="checkbox"/>
8. Run sample for a specific time as per given instructions	<input type="checkbox"/>	<input type="checkbox"/>
9. Record data for required parameter of the sample in specific SI units as a standard	<input type="checkbox"/>	<input type="checkbox"/>
10. Clean instruments after performing analysis as per given instructions	<input type="checkbox"/>	<input type="checkbox"/>
11. Ensure turn off of instruments as per manuals	<input type="checkbox"/>	<input type="checkbox"/>
12. Use glass apparatus according to given SOP	<input type="checkbox"/>	<input type="checkbox"/>
13. Follow safety standards of lab	<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>	Handle Basic Level Equipments
Candidate Details	
Guidance for Candidate	<p><b>To meet this standard, you are required to complete the following within the given time frame (for practical demonstration &amp; assessment):</b></p> <p><b>Calibrate and start operating basic level equipment while working for soil, water and fertilizer analysis in the laboratory. Basic level equipment shall include Analytical Balance, EC meter, Oven, PH meter, shaker, Vortex Mixer, Glass apparatus, Hot plate and magnetic Stirrer.</b></p>
Time:180 mins	<p>During a practical assessment, under observation by an assessor, you are required to</p> <p><b>Calibrate and start operating basic level equipment while working for soil, water and fertilizer analysis in the laboratory. Basic level equipment shall include Analytical Balance, EC meter, Oven, PH meter, shaker, Vortex Mixer, Glass apparatus, Hot plate and magnetic Stirrer.</b></p> <p>Demonstrate the following criteria:</p> <ol style="list-style-type: none"> <li>1. Clean basic level instruments as per manual instructions</li> <li>2. Clean Glass apparatus as per protocols</li> <li>3. Check power supply to the instrument voltage as mentioned in the manual</li> <li>4. Implement instrument maintenance plan as per given lab procedure</li> </ol>

<p>Minimum Evidence Required</p>	<ol style="list-style-type: none"> <li>5. Check pre-requisites before turning on the instruments as per given Manual</li> <li>6. Turn on instrument as per instruction given in manual</li> <li>7. Implement performance checks as per standard lab procedures</li> <li>8. Run sample for a specific time as per given instructions</li> <li>9. Record data for required parameter of the sample in specific SI units as a standard</li> <li>10. Clean instruments after performing analysis as per given instructions</li> <li>11. Ensure turn off of instruments as per manuals</li> <li>12. Use glass apparatus according to given SOP</li> <li>13. Follow safety standards of lab</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>	Handle Basic Level Equipments
<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			✓				
Knowledge Assessment		✓					
Other Requirement							

## Observation Checklist

<b>Assessment Task</b>	<b>Calibrate and start operating basic level equipment while working for soil, water and fertilizer analysis in the laboratory. Basic level equipment shall include Analytical Balance, EC meter, Oven, PH meter, shaker, Vortex Mixer, Glass apparatus, Hot plate and magnetic Stirrer.</b>			
<b>During the practical assessment, candidate demonstrated the following:</b>		<b>Yes</b>	<b>No</b>	<b>Remarks</b>
1.	Cleaned basic level instruments as per manual instructions			
2.	Cleaned Glass apparatus as per protocols			
3.	Checked power supply to the instrument voltage as mentioned in the manual			
4.	Implemented instrument maintenance plan as per given lab procedure			
5.	Checked pre-requisites before turning on the instruments as per given Manual			
6.	Turned instrument as per instruction given in manual			
7.	Implemented performance checks as per standard lab procedures			
8.	Run sample for a specific time as per given instructions			
9.	Recorded data for required parameter of the sample in specific SI units as a standard			
10.	Cleaned instruments after performing analysis as per given instructions			
11.	Ensured turn off of instruments as per manuals			
12.	Used glass apparatus according to given SOP			
13.	Followed safety standards of lab			
<b>Competent</b> <input type="checkbox"/>		<b>Not Yet Competent</b> <input type="checkbox"/>		

**Feedback to the Candidate**

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