

Self-Assessment Checklist

Candidate Name	
Registration No.	
Qualification	National Vocational Certificate level 1 to 5, in Agriculture Sector (Soil, water and fertilizer testing lab technician)
Competency Standards	Process Sample for Analysis
Assessment Task	Prepare soil, water and fertilizer samples as per specific laboratory analysis parameter

I can.....

Performance Criteria	Yes	No
1. Homogenize collected soil sample by mixing and allow to attain equilibrium according to given instructions.	<input type="checkbox"/>	<input type="checkbox"/>
2. Dry soil sample as per required procedures	<input type="checkbox"/>	<input type="checkbox"/>
3. Remove the physical impurities from the samples i.e. Plant residues, gravel, soft chalk, limestone and stones	<input type="checkbox"/>	<input type="checkbox"/>
4. Grind the soil sample following standard protocols	<input type="checkbox"/>	<input type="checkbox"/>
5. Sieve the selected soil according to test requirement	<input type="checkbox"/>	<input type="checkbox"/>
6. Dispose-off impurities retained on sieve as per lab protocols	<input type="checkbox"/>	<input type="checkbox"/>
7. Ensure sample labeling for desired process as per given standard	<input type="checkbox"/>	<input type="checkbox"/>
8. Follow health and safety guidelines	<input type="checkbox"/>	<input type="checkbox"/>
9. Ensure cleanliness of glass wares to avoid contamination	<input type="checkbox"/>	<input type="checkbox"/>
10. Filter water sample for physical impurities/undesirable matters as per required	<input type="checkbox"/>	<input type="checkbox"/>

standards		
11. Process water sample in desired apparatus only according to set SOPs	<input type="checkbox"/>	<input type="checkbox"/>
12. Ensure sample labeling for desired process as per given standard	<input type="checkbox"/>	<input type="checkbox"/>
13. Ensure safety standards	<input type="checkbox"/>	<input type="checkbox"/>
14. Ensure seal and label of sample as per standard method	<input type="checkbox"/>	<input type="checkbox"/>
15. Open the collected sample as per prescribed procedure	<input type="checkbox"/>	<input type="checkbox"/>
16. Process sample as per lab procedure according to requirement	<input type="checkbox"/>	<input type="checkbox"/>
17. Ensure safety standards as required	<input type="checkbox"/>	<input type="checkbox"/>
18. Ensure transportation of prepared sample according to prescribed standards	<input type="checkbox"/>	<input type="checkbox"/>
19. Prevent sample leakage or spillage	<input type="checkbox"/>	<input type="checkbox"/>
20. Ensure standard time period between collection and analysis of samples	<input type="checkbox"/>	<input type="checkbox"/>
21. Avoid mixing of collected and obtained sample	<input type="checkbox"/>	<input type="checkbox"/>
22. Follow health safety rules	<input type="checkbox"/>	<input type="checkbox"/>
23. Ensure Standard labeling of prepared and obtained samples before storage	<input type="checkbox"/>	<input type="checkbox"/>
24. Record data for storage	<input type="checkbox"/>	<input type="checkbox"/>
25. Store samples as per given SOP	<input type="checkbox"/>	<input type="checkbox"/>
26. Ensure lab safety rules for handling glass wares	<input type="checkbox"/>	<input type="checkbox"/>

Candidate's Signature_____

Assessor's Signature_____

Date: _____

Instruction Sheet for the Candidate

Qualification	National Vocational Certificate level 1 to 5, in Agriculture Sector (Soil, water and fertilizer testing lab technician)
Competency Standard(s)	Process Sample for Analysis
Candidate Details	
Guidance for Candidate	<p>To meet this standard, you are required to complete the following within the given time frame (for practical demonstration & assessment):</p> <p>Prepare soil, water and fertilizer samples as per specific laboratory analysis parameter</p>
Time:180 mins	<p>During a practical assessment, under observation by an assessor, you are required to</p> <p>Prepare soil, water and fertilizer sample for lab analysis</p> <p>Demonstrate the following criteria:</p> <ol style="list-style-type: none"> 1. Homogenize collected soil sample by mixing and allow to attain equilibrium according to given instructions. 2. Dry soil sample as per required procedures 3. Remove the physical impurities from the samples i.e. Plant residues, gravel, soft chalk, limestone and stones 4. Grind the soil sample following standard protocols 5. Sieve the selected soil according to test requirement 6. Dispose-off impurities retained on sieve as per lab protocols 7. Ensure sample labeling for desired process as per given standard 8. Follow health and safety guidelines 9. Ensure cleanliness of glass wares to avoid contamination

Minimum Evidence Required	<ol style="list-style-type: none"> 10. Filter water sample for physical impurities/undesirable matters as per required standards 11. Process water sample in desired apparatus only according to set SOPs 12. Ensure sample labeling for desired process as per given standard 13. Ensure safety standards 14. Ensure seal and label of sample as per standard method 15. Open the collected sample as per prescribed procedure 16. Process sample as per lab procedure according to requirement 17. Ensure safety standards as required 18. Ensure transportation of prepared sample according to prescribed standards 19. Prevent sample leakage or spillage 20. Ensure standard time period between collection and analysis of samples 21. Avoid mixing of collected and obtained sample 22. Follow health safety rules 23. Ensure Standard labeling of prepared and obtained samples before storage 24. Record data for storage 25. Store samples as per given SOP 26. Ensure lab safety rules for handling glass wares
---------------------------	--

Assessors Judgment Guide

Qualification	National Vocational Certificate level 1 to 5, in Agriculture Sector (Soil, water and fertilizer testing lab technician)
Competency Standard(s)	Process Sample for Analysis
Candidate Details	Name: _____ Registration/Roll Number: _____ 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: _____

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 soil, water and fertilizer samples as per specific laboratory analysis parameter		
During the practical assessment, candidate demonstrated the following:		Yes	No	Remarks
1.	Homogenized collected soil sample by mixing and allowed to attain equilibrium according to given instructions			
2.	Dried soil sample as per required procedures			
3.	Removed the physical impurities from the samples i.e. Plant residues, gravel, soft chalk, limestone and stones			
4.	Grinded the soil sample following standard protocols			
5.	Sieved the selected soil according to test requirement			
6.	Disposed-off impurities retained on sieve as per lab protocols			
7.	Ensured sample labeling for desired process as per given standard			
8.	Followed health and safety guidelines			
9.	Ensured cleanliness of glass wares to avoid contamination			
10	Filtered water sample for physical impurities/undesirable matters as per required standards			
11	Processed water sample in desired apparatus only according to set SOPs			
12	Ensured sample labeling for desired process as per given standard			
13	Ensured safety standards			
14	Ensured seal and label of sample as per standard method			
15	Opened the collected sample as per prescribed procedure			
16	Processed sample as per lab procedure according to requirement			
17	Ensured safety standards as required			

Candidate's Signature _____	Assessor's Signature _____
------------------------------------	-----------------------------------