

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	Perform Standard Test Method (STM) to evaluate Gypsum Requirement in soil
Assessment Task	Analyze soil samples for gypsum requirements: <div style="margin-left: 20px;"> a) Phase soil sample for titration b) Titrate the sample and measure the results according to the standard test procedure </div>

I can.....

Performance Criteria	Yes	No
1. Check the sample label as per requirement of test	<input type="checkbox"/>	<input type="checkbox"/>
2. Keep the sample at room temperature	<input type="checkbox"/>	<input type="checkbox"/>
3. Prepare the sample as per test procedure	<input type="checkbox"/>	<input type="checkbox"/>
4. Ensure the availability of reagents/media as per test requirement	<input type="checkbox"/>	<input type="checkbox"/>
5. Arrange related equipment as per protocol	<input type="checkbox"/>	<input type="checkbox"/>
6. Ensure safe calibration of equipment as per requirement	<input type="checkbox"/>	<input type="checkbox"/>
7. Ensure safety requirements as per protocol	<input type="checkbox"/>	<input type="checkbox"/>
8. Weigh specific amount of soil as per requirement	<input type="checkbox"/>	<input type="checkbox"/>
9. Perform the test as per lab protocol	<input type="checkbox"/>	<input type="checkbox"/>
10. Calculate as per prescribed formula	<input type="checkbox"/>	<input type="checkbox"/>
11. Analyze in three replicates	<input type="checkbox"/>	<input type="checkbox"/>
12. Convert the readings according to standard units	<input type="checkbox"/>	<input type="checkbox"/>

13. Store unused reagents	<input type="text"/>	<input type="text"/>
14. Dispose of wastes as required	<input type="text"/>	<input type="text"/>
15. Clean and store equipment.	<input type="text"/>	<input type="text"/>
16. Run blank sample accordingly.	<input type="text"/>	<input type="text"/>
17. Run Laboratory Control samples as per standard.	<input type="text"/>	<input type="text"/>
18. Perform replicate/re-testing as per lab standards.	<input type="text"/>	<input type="text"/>
19. Record quality control data as per lab procedure.	<input type="text"/>	<input type="text"/>
20. Ensure standardization of solution and reagents as per standard method	<input type="text"/>	<input type="text"/>
21. Calculate as per standard formula.	<input type="text"/>	<input type="text"/>
22. Submit the results to lab In-charge	<input type="text"/>	<input type="text"/>
23. Clear and restore work area	<input type="text"/>	<input type="text"/>
24. Use clean and good quality glassware as per standard method	<input type="text"/>	<input type="text"/>
25. Always prepare fresh working standards for accurate results	<input type="text"/>	<input type="text"/>
26. Ensure safety protocols as per standard method	<input type="text"/>	<input type="text"/>

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 Standard Test Method (STM) to evaluate Gypsum Requirement in soil
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>Analyze soil samples for gypsum requirements:</p> <ol style="list-style-type: none"> a) Phase soil sample for titration b) Titrate the sample and measure the results according to the standard test procedure
Time: 240 Mins	<p>During a practical assessment, under observation by an assessor, you are required to</p> <p>Analyze soil samples for gypsum requirements:</p> <ol style="list-style-type: none"> 1. Process soil sample for titration 2. Titrate the sample and measure the results according to the standard test procedure
Minimum Evidence Required	<p>Demonstrate the following criteria:</p> <p>Process soil sample for titration</p> <ol style="list-style-type: none"> 1. Check the sample label as per requirement of test 2. Keep the sample at room temperature 3. Prepare the sample as per test procedure 4. Ensure the availability of reagents/media as per test requirement 5. Arrange related equipment as per protocol 6. Ensure safety requirements as per protocol <p>Titrate the sample and measure the results according to the standard test procedure</p> <ol style="list-style-type: none"> 7. Ensure safe calibration of equipment as per requirement

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| | <ol style="list-style-type: none">8. Weigh specific amount of soil as per requirement9. Perform the test as per lab protocol10. Calculate as per prescribed formula11. Analyze in three replicates12. Convert the readings according to standard units13. Store unused reagents14. Dispose of wastes as required15. Clean and store equipment.16. Run blank sample accordingly.17. Run Laboratory Control samples as per standard.18. Perform replicate/re-testing as per lab standards.19. Record quality control data as per lab procedure.20. Ensure standardization of solution and reagents as per standard method21. Calculate as per standard formula.22. Submit the results to lab In-charge23. Clear and restore work area24. Use clean and good quality glassware as per standard method25. Always prepare fresh working standards for accurate results26. Ensure safety protocols as per standard method |
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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 Standard Test Method (STM) to evaluate Gypsum Requirement in soil
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							
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Observation Checklist

Assessment Task		Analyze soil samples for gypsum requirements:		
		a) Phase soil sample for titration b) Titrate the sample and measure the results according to the standard test procedure		
During the practical assessment, candidate demonstrated the following:		Yes	No	Remarks
1.	Checked the sample label as per requirement of test			
2.	Kept the sample at room temperature			
3.	Prepared the sample as per test procedure			
4.	Ensured the availability of reagents/media as per test requirement			
5.	Arranged related equipment as per protocol			
6.	Ensured safe calibration of equipment as per requirement			
7.	Ensured safety requirements as per protocol			
8.	Weigh specific amount of soil as per requirement			
9.	Performed the test as per lab protocol			
10.	Calculated as per prescribed formula			
11.	Analyzed in three replicates			
12.	Converted the readings according to standard units			
13.	Stored unused reagents			
14.	Disposed of wastes as required			
15.	Cleaned and store equipment.			

16	Run blank sample accordingly.			
17	Run Laboratory Control samples as per standard.			
18	Performed replicate/re-testing as per lab standards.			
19	Recorded quality control data as per lab procedure.			
20	Ensured standardization of solution and reagents as per standard method			
21	Calculated as per standard formula.			
22	Submitted the results to lab In-charge			
23	Cleared and restore work area			
24	Used clean and good quality glassware as per standard method			
25	Always prepared fresh working standards for accurate results			
26	Ensured safety protocols as per standard method			
Competent <input type="checkbox"/>		Not Yet Competent <input type="checkbox"/>		

Feedback to the Candidate	

Candidate's Signature _____ Assessor's Signature _____