

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) for Zinc chelated percentage
Assessment Task	Determine the chelated percentage of the Zinc fertilizer Step 1: Process sample for titration Step 2: Titrate the sample and calculate the results according to the standard test procedure.

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 sample 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 results as per prescribed formula	<input type="checkbox"/>	<input type="checkbox"/>
11. Analyze in three replicates	<input type="checkbox"/>	<input type="checkbox"/>
12. Store unused reagents	<input type="checkbox"/>	<input type="checkbox"/>
13. Dispose of wastes as required	<input type="checkbox"/>	<input type="checkbox"/>
14. Clean and store equipment	<input type="checkbox"/>	<input type="checkbox"/>
15. Run blank sample accordingly.	<input type="checkbox"/>	<input type="checkbox"/>
16. Turn on equipment as per standard manual	<input type="checkbox"/>	<input type="checkbox"/>
17. Run Laboratory Control samples as per standard.	<input type="checkbox"/>	<input type="checkbox"/>
18. Perform replicate/re-testing as per lab standards.	<input type="checkbox"/>	<input type="checkbox"/>
19. Record quality control data as per lab procedure.	<input type="checkbox"/>	<input type="checkbox"/>

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"/>
27. Ensure calibration as per standard requirements	<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) for Zinc chelated percentage
Candidate Details	Name ----- Registration/Roll Number -----
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>Determine the chelated percentage of the Zinc fertilizer Step 1: Process sample for titration Step 2: Titrate the sample and calculate the results according to the standard test procedure.</p>
Time:240 Mins	<p>During a practical assessment, under observation by an assessor, you are required to</p> <p>Determine the chelated percentage of the Zinc fertilizer Step 1: Process sample for titration Step 2: Titrate the sample and calculate the results according to the standard test procedure.</p>
Minimum Evidence Required	<p>Demonstrate the following criteria:</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 safe calibration of equipment as per requirement 7. Ensure safety requirements as per protocol 8. Weigh specific amount of sample as per requirement 9. Perform the test as per lab protocol 10. Calculate results as per prescribed formula 11. Analyze in three replicates 12. Store unused reagents 13. Dispose of wastes as required 14. Clean and store equipment 15. Run blank sample accordingly. 16. Turn on equipment as per standard manual

	<ol style="list-style-type: none">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 results.26. Ensure safety protocols as per standard method.27. Ensure calibration as per standard requirements
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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) for Zinc chelated percentage
Candidate Details	Name ----- Registration/Roll Number:----- Signature: -----
Assessment Outcome	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	Determine the chelated percentage of the Zinc fertilizer Step 1: Process sample for titration Step 2: Titrate the sample and calculate 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.	Weighed specific amount of sample as per requirement			
9.	Performed the test as per lab protocol			
10.	Calculated results as per prescribed formula			
11.	Analyzed in three replicates			
12.	Stored unused reagents			
13.	Disposed of wastes as required			
14.	Cleaned and stored equipment			
15.	Run blank sample accordingly.			
16.	Turned on equipment as per standard manual			
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 restored 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.			
27.	Ensured calibration as per standard requirements			
Competent <input type="checkbox"/>		Not Yet Competent <input type="checkbox"/>		

Feedback to the Candidate

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