

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 Conductivity test of water by EC Meter
Assessment Task	Perform and measure the Electrical conductivity for the water sample

I can.....

Performance Criteria	Yes	No
1. Check sample label for required test	<input type="checkbox"/>	<input type="checkbox"/>
2. Maintain Laboratory room temperature as per requirement	<input type="checkbox"/>	<input type="checkbox"/>
3. Keep sample at room temperature for few minutes	<input type="checkbox"/>	<input type="checkbox"/>
4. Check for availability of EC standard as per requirement	<input type="checkbox"/>	<input type="checkbox"/>
5. Arrange equipment as per requirements	<input type="checkbox"/>	<input type="checkbox"/>
6. Set up EC meter and/or reagents in accordance with the standard work instructions	<input type="checkbox"/>	<input type="checkbox"/>
7. Conduct pre-use and safety checks	<input type="checkbox"/>	<input type="checkbox"/>
8. Turn on instrument as per manual	<input type="checkbox"/>	<input type="checkbox"/>
9. Check calibration status and perform calibration if required	<input type="checkbox"/>	<input type="checkbox"/>
10. Take sample in a beaker as per test method requirement	<input type="checkbox"/>	<input type="checkbox"/>
11. Immerse electrode and stir it until instrument gives stable reading	<input type="checkbox"/>	<input type="checkbox"/>
12. Perform replicates as per requirement	<input type="checkbox"/>	<input type="checkbox"/>
13. Store unused reagents and dispose of wastes as per SOP	<input type="checkbox"/>	<input type="checkbox"/>
14. Clean and store equipment as per lab protocol	<input type="checkbox"/>	<input type="checkbox"/>
15. Perform EC meter intermediate checks as per lab quality assurance plan	<input type="checkbox"/>	<input type="checkbox"/>
16. Run blank sample accordingly	<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. Prepare quality control charts of quality assurance activities according to lab procedure	<input type="checkbox"/>	<input type="checkbox"/>

21. Calculate and Note down the Results on analyst workbook	<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. Ensure calibration of instrument as per requirement	<input type="text"/>	<input type="text"/>
25. Leave probe always in conductivity / storage solution	<input type="text"/>	<input type="text"/>
26. Submerge probe in sample to be tested while stirring it gently	<input type="text"/>	<input type="text"/>
27. Rinse probe tip after use according to SOP	<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 Conductivity test of water by EC Meter
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>Perform and measure the Electrical conductivity for the water sample</p>
Time:180 mins	<p>During a practical assessment, under observation by an assessor, you are required to</p> <p>Perform and measure the Electrical conductivity for the water sample</p>
Minimum Evidence Required	<p>Demonstrate the following criteria:</p> <ol style="list-style-type: none"> 1. Check sample label for required test 2. Maintain Laboratory room temperature as per requirement 3. Keep sample at room temperature for few minutes 4. Check for availability of EC standard as per requirement 5. Arrange equipment as per requirements 6. Set up EC meter and/or reagents in accordance with the standard work instructions 7. Conduct pre-use and safety checks 8. Turn on instrument as per manual 9. Check calibration status and perform calibration if required 10. Take sample in a beaker as per test method requirement 11. Immerse electrode and stir it until instrument gives stable reading 12. Perform replicates as per requirement 13. Store unused reagents and dispose of wastes as per SOP 14. Clean and store equipment as per lab protocol 15. Perform EC meter intermediate checks as per lab quality assurance plan 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. Prepare quality control charts of quality assurance activities according to lab procedure

	21. Calculate and Note down the Results on analyst workbook 22. Submit the results to lab In-charge 23. Clear and restore work area 24. Ensure calibration of instrument as per requirement 25. Leave probe always in conductivity / storage solution 26. Submerge probe in sample to be tested while stirring it gently 27. Rinse probe tip after use according to SOP
--	---

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 Conductivity test of water by EC Meter
Candidate Details	Name: _____ Registration/Roll Number: _____ Signature: _____
Assessment Outcome	<p> COMPETENT <input type="checkbox"/> NOT YET COMPETENT <input type="checkbox"/> </p> <p> Name of the Assessor _____ Assessor's code: _____ Signature: _____ </p>

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		Perform and measure the Electrical conductivity for the water sample		
During the practical assessment, candidate demonstrated the following:		Yes	No	Remarks
1.	Checked sample label for required test			
2.	Maintained Laboratory room temperature as per requirement			
3.	Kept sample at room temperature for few minutes			
4.	Checked for availability of EC standard as per requirement			
5.	Arranged equipment as per requirements			
6.	Set up EC meter and/or reagents in accordance with the standard work instructions			
7.	Conducted pre-use and safety checks			
8.	Turned on instrument as per manual			
9.	Checked calibration status and perform calibration if required			
10.	Took sample in a beaker as per test method requirement			
11.	Immersed electrode and stir it until instrument gives stable reading			
12.	Performed replicates as per requirement			
13.	Stored unused reagents and dispose of wastes as per SOP			
14.	Cleaned and store equipment as per lab protocol			
15.	Performed EC meter intermediate checks as per lab quality assurance plan			
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.	Prepared quality control charts of quality assurance activities according to lab procedure			
21.	Calculated and Note down the Results on analyst workbook			
22.	Submitted the results to lab In-charge			
23.	Cleared and restore work area			
24.	Ensured calibration of instrument as per requirement			
25.	Left probe always in conductivity / storage			

	solution			
26	Submerged probe in sample to be tested while stirring it gently			
27	Rinsed probe tip after use according to SOP			
Competent <input type="checkbox"/>		Not Yet Competent <input type="checkbox"/>		

Feedback to the Candidate

Candidate's Signature _____ Assessor's Signature _____