

Self-Assessment Checklist

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| 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 Soil Saturation Percentage Test |
| Assessment Task | Determine soil saturation percentage |

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. Arrange equipment as per test requirements. | <input type="checkbox"/> | <input type="checkbox"/> |
| 4. Set up hydrometer in accordance with the standard work instructions. | <input type="checkbox"/> | <input type="checkbox"/> |
| 5. Conduct pre-use and safety checks. | <input type="checkbox"/> | <input type="checkbox"/> |
| 6. Take soil sample in beaker as per SOP. | <input type="checkbox"/> | <input type="checkbox"/> |
| 7. Add distilled water as per test method. | <input type="checkbox"/> | <input type="checkbox"/> |
| 8. Note down volume of water used as per standard testing method | <input type="checkbox"/> | <input type="checkbox"/> |
| 9. Check for volume of water carefully. | <input type="checkbox"/> | <input type="checkbox"/> |
| 10. Perform replicate/re-testing as per lab standards. | <input type="checkbox"/> | <input type="checkbox"/> |
| 11. Record quality control data as per lab procedure | <input type="checkbox"/> | <input type="checkbox"/> |
| 12. Calculate saturation percentage by recommended formula. | <input type="checkbox"/> | <input type="checkbox"/> |
| 13. Submit the results to lab In-charge | <input type="checkbox"/> | <input type="checkbox"/> |
| 14. Clear and restore work area | <input type="checkbox"/> | <input type="checkbox"/> |
| 15. Ensure calibration of equipment if required. | <input type="checkbox"/> | <input type="checkbox"/> |
| 16. Rinse beaker and spatula according to SOP | <input type="checkbox"/> | <input type="checkbox"/> |
| 17. Ensure safety protocols | <input type="checkbox"/> | <input type="checkbox"/> |

Candidate's Signature_____

Assessor's Signature_____

Date: _____

Instruction Sheet for the Candidate

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|----------------------------------|---|
| Qualification | National Vocational Certificate level 2 to 5, in Agriculture Sector (Soil, water and fertilizer testing lab technician) |
| Competency Standard(s) | Perform Soil Saturation Percentage Test |
| Candidate Details | Name_____ Registration/Roll Number_____ |
| Guidance for Candidate | To meet this standard, you are required to complete the following within the given time frame (for practical demonstration & assessment): Determine soil saturation percentage |
| Time:240 mins | During a practical assessment, under observation by an assessor, you are required to Determine soil saturation percentage |
| Minimum Evidence Required | Demonstrate the following criteria: <ol style="list-style-type: none"> 1. Check sample label for required test. 2. Maintain Laboratory room temperature as per requirement. 3. Arrange equipment as per test requirements. 4. Set up apparatus in accordance with the standard work instructions. 5. Conduct pre-use and safety checks. 6. Take soil sample in beaker as per SOP. 7. Add distilled water as per test method. 8. Note down volume of water used as per standard testing method 9. Check for volume of water carefully. 10. Perform replicate/re-testing as per lab standards. 11. Record quality control data as per lab procedure 12. Calculate saturation percentage by recommended formula. 13. Submit the results to lab In-charge 14. Clear and restore work area 15. Ensure calibration of equipment if required. 16. Rinse beaker and spatula according to SOP 17. Ensure safety protocols |

Assessors Judgment Guide

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|-------------------------------|--|
| Qualification | National Vocational Certificate level 2 to 5, in Agriculture Sector (Soil, water and fertilizer testing lab technician) |
| Competency Standard(s) | Perform Soil Saturation Percentage Test |
| 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 soil saturation percentage | | | |
|--|---|-----|----|---------|
| 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. | Arranged equipment as per test requirements. | | | |
| 4. | Set up apparatus in accordance with the standard work instructions. | | | |
| 5. | Conducted pre-use and safety checks. | | | |
| 6. | Took soil sample in beaker as per SOP. | | | |

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|------------------------------------|--|--|--|--|
| 7. | Added distilled water as per test method. | | | |
| 8. | Noted down volume of water used as per standard testing method | | | |
| 9. | Checked for volume of water carefully. | | | |
| 10 | Performed replicate/re-testing as per lab standards. | | | |
| 11 | Recorded quality control data as per lab procedure | | | |
| 12 | Calculated saturation percentage by recommended formula. | | | |
| 13 | Submitted the results to lab In-charge | | | |
| 14 | Cleared and restore work area | | | |
| 15 | Ensured calibration of equipment if required. | | | |
| 16 | Rinsed beaker and spatula according to SOP | | | |
| 17 | Ensured safety protocols | | | |
| Competent <input type="checkbox"/> | | Not Yet Competent <input type="checkbox"/> | | |

Feedback to the Candidate

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| Candidate's Signature _____ | Assessor's Signature _____ |