

## Self-Assessment Checklist

|                             |  |
|-----------------------------|--|
| <b>Candidate Name</b>       |  |
| <b>Registration No.</b>     |  |
| <b>Qualification</b>        | Mining Process Technology  |
| <b>Competency Standards</b> | Perform soil profiling   |
| <b>Assessment Task</b>      | <p><b>Perform the following tasks for soil profile of the given mine site</b></p> <ol style="list-style-type: none"> <li><b>Organize area for soil profile</b></li> <li><b>Develop soil profile</b></li> </ol> <p><i>Note: Assessor should provide area, equipment's as required for the assessment.</i></p> |

I can.....

| Performance Criteria  | Yes                      | No                       |
|---|--------------------------|--------------------------|
| 1. Conduct work according to site procedures, regulations, OHS, other relevant legislation, manufacturer's specifications   | <input type="checkbox"/> | <input type="checkbox"/> |
| 2. Select appropriate type of equipment and attachments according to job specifications                                     | <input type="checkbox"/> | <input type="checkbox"/> |
| 3. Use appropriate personal protective equipment  | <input type="checkbox"/> | <input type="checkbox"/> |
| 4. Conduct equipment pre-start (visual) checks to ensure equipment is ready for operation                                   | <input type="checkbox"/> | <input type="checkbox"/> |
| 5. Stabilize soil profile through appropriate construction techniques   | <input type="checkbox"/> | <input type="checkbox"/> |
| 6. Select appropriate materials for subsoil taking into consideration vegetation requirements                               | <input type="checkbox"/> | <input type="checkbox"/> |
| 7. Replicate the construction of soil profile horizons in the surrounding environment or as detailed in rehabilitation plan | <input type="checkbox"/> | <input type="checkbox"/> |
| 8. Check landform construction is complete prior to placement of final soil layer   | <input type="checkbox"/> | <input type="checkbox"/> |
| 9. Place final soil layer in appropriate conditions to minimize damage to soil  | <input type="checkbox"/> | <input type="checkbox"/> |
| 10. Construct soil horizon following land contour to reduce water flow downslope and increase water storage capabilities    | <input type="checkbox"/> | <input type="checkbox"/> |
| 11. Add nutrients to soil where required according to rehabilitation plan and environmental guidelines                      | <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, Mining Process Technology |
| Competency Standard(s) | Perform soil profiling  |

|                           |  |
|---------------------------|--|
| Candidate Details         | Name_____<br>Registration/Roll Number_____   |
| Guidance for Candidate    | <p><b>To meet this standard, you are required to complete the following within the given time frame (for practical demonstration &amp; assessment):</b></p> <p><b>Perform the following tasks for soil profile of the given mine site</b></p> <ol style="list-style-type: none"> <li><b>1. Organize area for soil profile</b></li> <li><b>2. Develop soil profile</b></li> </ol> <p><i>Note: Assessor should provide area, equipment's as required for the assessment.</i></p>   |
| Time:180 mins             | <p>During a practical assessment, under observation by an assessor, you are required to demonstrating the following criteria:</p> <ol style="list-style-type: none"> <li>1. Conduct work according to site procedures, regulations, OHS, other relevant legislation, manufacturer's specifications</li> <li>2. Select appropriate type of equipment and attachments according to job specifications</li> <li>3. Use appropriate personal protective equipment</li> <li>4. Conduct equipment pre-start (visual) checks to ensure equipment is ready for operation</li> </ol>  |
| Minimum Evidence Required | <ol style="list-style-type: none"> <li>5. Stabilize soil profile through appropriate construction techniques</li> <li>6. Select appropriate materials for subsoil taking into consideration vegetation requirements</li> <li>7. Replicate the construction of soil profile horizons in the surrounding environment or as detailed in rehabilitation plan</li> <li>8. Check landform construction is complete prior to placement of final soil layer</li> <li>9. Place final soil layer in appropriate conditions to minimize damage to soil</li> <li>10. Construct soil horizon following land contour to reduce water flow downslope and increase water storage capabilities</li> <li>11. Add nutrients to soil where required according to rehabilitation plan and environmental guidelines</li> </ol> |

## Assessors Judgment Guide

|                               |  |
|-------------------------------|--|
| <b>Qualification</b>          | National Vocational Certificate level 1 to 5, Mining Process Technology  |
| <b>Competency Standard(s)</b> | Perform soil profiling   |
| <b>Candidate Details</b>      | Name: _____<br>Registration/Roll Number: _____ Signature: _____  |
| <b>Assessment Outcome</b>     | COMPETENT <input type="checkbox"/> NOT YET COMPETENT <input type="checkbox"/><br>Name of the Assessor _____ Assessor's code: _____<br>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

|   |  |   |           |                |
|---|--|---|-----------|----------------|
| <b>Assessment Task</b>  | <b>Perform the following tasks for soil profile of the given mine site</b><br><b>1. Organize area for soil profile</b><br><b>2. Develop soil profile</b><br><i>Note: Assessor should provide area, equipment's as required for the assessment.</i> |   |           |                |
| <b>During the practical assessment, candidate demonstrated the following:</b> |  | <b>Yes</b>  | <b>No</b> | <b>Remarks</b> |
| 1.  | Conduct work according to site procedures, regulations, OHS, other relevant legislation, manufacturer's specifications   |   |           |                |
| 2.  | Select appropriate type of equipment and attachments according to job specifications   |   |           |                |
| 3.  | Use appropriate personal protective equipment  |   |           |                |
| 4.  | Conduct equipment pre-start (visual) checks to ensure equipment is ready for operation   |   |           |                |
| 5.  | Stabilize soil profile through appropriate construction techniques   |   |           |                |
| 6.  | Select appropriate materials for subsoil taking into consideration vegetation requirements   |   |           |                |
| 7.  | Replicate the construction of soil profile horizons in the surrounding environment or as detailed in rehabilitation plan   |   |           |                |
| 8.  | Check landform construction is complete prior to placement of final soil layer   |   |           |                |
| 9.  | Place final soil layer in appropriate conditions to minimize damage to soil  |   |           |                |
| 10.   | Construct soil horizon following land contour to reduce water flow downslope and increase water storage capabilities   |   |           |                |
| 11.   | Add nutrients to soil where required according to rehabilitation plan and environmental guidelines   |   |           |                |
| <b>Competent</b> <input type="checkbox"/>                                     |  | <b>Not Yet Competent</b> <input type="checkbox"/> |           |                |

| Feedback to the Candidate  |                           |
|----------------------------|---------------------------|
|                            |                           |
|                            |                           |
|                            |                           |
|                            |                           |
|                            |                           |
|                            |                           |
| Candidate's Signature_____ | Assessor's Signature_____ |