

## Self-Assessment Checklist

<b>Candidate Name</b>	
<b>Registration No.</b>	
<b>Qualification</b>	Mining Process Technology
<b>Competency Standards</b>	Operate Surface Mining Machines
<b>Assessment Task</b>	<b>Operate the following machinery as per site condition and requirements</b> 1. <b>Operate shovel/excavator</b> 2. <b>Operate scraper</b> 3. <b>Conduct dozer operations</b> 4. <b>Operate mining dump truck operations</b>

I can.....

<b>Performance Criteria</b>	<b>Yes</b>	<b>No</b>
1. Select appropriate type of equipment attachments according to job specifications	<input type="checkbox"/>	<input type="checkbox"/>
2. Carry out start-up, park and shut-down procedures	<input type="checkbox"/>	<input type="checkbox"/>
3. Dig and load material	<input type="checkbox"/>	<input type="checkbox"/>
4. Adjust load as per machine capacity	<input type="checkbox"/>	<input type="checkbox"/>
5. Minimize spillage and contamination through digging and loading techniques	<input type="checkbox"/>	<input type="checkbox"/>
6. Conduct housekeeping activities	<input type="checkbox"/>	<input type="checkbox"/>
7. Adjust equipment pushing speed and direction according to other vehicles performance, material characteristics and ground conditions	<input type="checkbox"/>	<input type="checkbox"/>
8. Carry out ripping activities	<input type="checkbox"/>	<input type="checkbox"/>
9. Conduct housekeeping activities	<input type="checkbox"/>	<input type="checkbox"/>
10. Plan and prepare all necessary safety and emergency issues	<input type="checkbox"/>	<input type="checkbox"/>
11. Coordinate engine power with gear selection ensuring smooth transition and operation within torque range	<input type="checkbox"/>	<input type="checkbox"/>
12. Operate dump truck to work instructions	<input type="checkbox"/>	<input type="checkbox"/>
13. Monitor road/traffic conditions constantly taking into account of road standards	<input type="checkbox"/>	<input type="checkbox"/>
14. Position vehicle at load and discharge points with a minimum of manoeuvre	<input type="checkbox"/>	<input type="checkbox"/>
15. Control dump truck movements including the raising and lowering of the tray smoothly	<input type="checkbox"/>	<input type="checkbox"/>
16. Assess weight and distribution of load for type of material and size of vehicle to ensure it is within vehicle capacity	<input type="checkbox"/>	<input type="checkbox"/>
17. Discharge load on slope and/or over face at fill site in accordance with standard procedures	<input type="checkbox"/>	<input type="checkbox"/>

National Vocational Certificate level 1 to 5, Mining Process Technology (Operate Surface Mining Machines)

18. Dump/spread material evenly in accordance with standard procedures	<input type="checkbox"/>	<input type="checkbox"/>
19. Clear, lower and secure tray before resuming travel in accordance with manufacturers' instructions	<input type="checkbox"/>	<input type="checkbox"/>
20. Clear work area and dispose-off / recycle materials in accordance with project environmental management plan	<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)	Operate Surface Mining Machines

National Vocational Certificate level 1 to 5, Mining Process Technology (Operate Surface Mining Machines)

Candidate Details	Name _____ 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>Install Support for Mine using following system</b></p> <ol style="list-style-type: none"> <li><b>1. Organize for ground support installation</b></li> <li><b>2. Setup and prepare for installation</b></li> <li><b>3. Assemble and install ground support</b></li> </ol>
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. Select appropriate type of equipment attachments according to job specifications</li> <li>2. Carry out start-up, park and shut-down procedures</li> <li>3. Dig and load material</li> <li>4. Adjust load as per machine capacity</li> <li>5. Minimize spillage and contamination through digging and loading techniques</li> <li>6. Conduct housekeeping activities</li> <li>7. Adjust equipment pushing speed and direction according to other vehicles performance, material characteristics and ground conditions</li> </ol>
Minimum Evidence Required	<ol style="list-style-type: none"> <li>8. Carry out ripping activities</li> <li>9. Conduct housekeeping activities</li> <li>10. Plan and prepare all necessary safety and emergency issues</li> <li>11. Coordinate engine power with gear selection ensuring smooth transition and operation within torque range</li> <li>12. Operate dump truck to work instructions</li> <li>13. Monitor road/traffic conditions constantly taking into account of road standards</li> <li>14. Position vehicle at load and discharge points with a minimum of manoeuvre</li> <li>15. Control dump truck movements including the raising and lowering of the tray smoothly</li> <li>16. Assess weight and distribution of load for type of material and size of vehicle to ensure it is within vehicle capacity</li> <li>17. Discharge load on slope and/or over face at fill site in accordance with standard procedures</li> <li>18. Dump/spread material evenly in accordance with standard procedures</li> <li>19. Clear, lower and secure tray before resuming travel in accordance with manufacturers' instructions</li> <li>20. Clear work area and dispose-off / recycle materials in accordance with project environmental management plan</li> </ol>

## Assessors Judgment Guide

<b>Qualification</b>	National Vocational Certificate level 1 to 5, Mining Process Technology
<b>Competency Standard(s)</b>	Operate Surface Mining Machines
<b>Candidate Details</b>	Name: _____ Registration/Roll Number: _____ Signature: _____
<b>Assessment Outcome</b>	<p>COMPETENT <input type="checkbox"/> NOT YETCOMPETENT <input type="checkbox"/></p> <p>Name of the Assessor _____ Assessor's code: _____</p> <p>Signature: _____</p>

Assessment Summary (to be filled by the assessor)							
Activity	Method					Result	
	Written	Oral	Observation	Portfolio	Role Play	Competent	Not Yet Competent
Nature of Activity							
Practical Skill Demonstration			✓				
Knowledge Assessment		✓					
Other Requirement							

## Observation Checklist

<b>Assessment Task</b>	<b>Install Support for Mine using following system</b>		
	<ol style="list-style-type: none"> <li>1. Organize for ground support installation</li> <li>2. Setup and prepare for installation</li> <li>3. Assemble and install ground support</li> </ol>		
<b>During the practical assessment, candidate demonstrated the following:</b>	<b>Yes</b>	<b>No</b>	<b>Remarks</b>
1. Select appropriate type of equipment attachments according to job specifications	<input type="checkbox"/>	<input type="checkbox"/>	
2. Carry out start-up, park and shut-down procedures	<input type="checkbox"/>	<input type="checkbox"/>	
3. Dig and load material	<input type="checkbox"/>	<input type="checkbox"/>	
4. Adjust load as per machine capacity	<input type="checkbox"/>	<input type="checkbox"/>	
5. Minimize spillage and contamination through digging and loading techniques	<input type="checkbox"/>	<input type="checkbox"/>	
6. Conduct housekeeping activities	<input type="checkbox"/>	<input type="checkbox"/>	
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19. Clear, lower and secure tray before resuming travel in accordance with manufacturers' instructions	<input type="checkbox"/>	<input type="checkbox"/>	
20. Clear work area and dispose-off / recycle materials in accordance with project environmental management plan	<input type="checkbox"/>	<input type="checkbox"/>	
<b>Competent</b> <input type="checkbox"/>	<b>Not Yet Competent</b> <input type="checkbox"/>		

<b>Feedback to the Candidate</b>	
<b>Candidate's Signature</b> _____	<b>Assessor's Signature</b> _____