

Self-Assessment Checklist

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

I can.....

Performance Criteria	Yes	No
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="text"/>	<input type="text"/>
19. Clear, lower and secure tray before resuming travel in accordance with manufacturers' instructions	<input type="text"/>	<input type="text"/>
20. Clear work area and dispose-off / recycle materials in accordance with project environmental management plan	<input type="text"/>	<input type="text"/>

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

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

Assessors Judgment Guide

Qualification	National Vocational Certificate level 1 to 5, Mining Process Technology
Competency Standard(s)	Operate Surface Mining Machines
Candidate Details	Name: _____ Registration/Roll Number: _____ Signature: _____
Assessment Outcome	<div style="display: flex; justify-content: space-between; align-items: center;"> <div> COMPETENT <input type="checkbox"/> </div> <div> NOT YET COMPETENT <input type="checkbox"/> </div> </div> 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	Install Support for Mine using following system <ol style="list-style-type: none"> 1. Organize for ground support installation 2. Setup and prepare for installation 3. Assemble and install ground support 			
During the practical assessment, candidate demonstrated the following:		Yes	No	Remarks
1.	Select appropriate type of equipment attachments according to job specifications			
2.	Carry out start-up, park and shut-down procedures			
3.	Dig and load material			
4.	Adjust load as per machine capacity			
5.	Minimize spillage and contamination through digging and loading techniques			
6.	Conduct housekeeping activities			
7.	Adjust equipment pushing speed and direction according to other vehicles performance, material characteristics and ground conditions			
8.	Carry out ripping activities			
9.	Conduct housekeeping activities			
10.	Plan and prepare all necessary safety and emergency issues			
11.	Coordinate engine power with gear selection ensuring smooth transition and operation within torque range			
12.	Operate dump truck to work instructions			
13.	Monitor road/traffic conditions constantly taking into account of road standards			
14.	Position vehicle at load and discharge points with a minimum of manoeuvre			
15.	Control dump truck movements including the raising and lowering of the tray smoothly			
16.	Assess weight and distribution of load for type of material and size of vehicle to ensure it is within vehicle capacity			
17.	Discharge load on slope and/or over face at fill site in accordance with standard procedures			
18.	Dump/spread material evenly in accordance with standard procedures			
19.	Clear, lower and secure tray before resuming travel in accordance with manufacturers' instructions			
20.	Clear work area and dispose-off / recycle materials in accordance with project environmental management plan			
Competent <input type="checkbox"/>		Not Yet Competent <input type="checkbox"/>		

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