

## Self-Assessment Checklist

<b>Candidate Name</b>	
<b>Registration No.</b>	
<b>Qualification</b>	Mining Process Technology
<b>Competency Standards</b>	<b>Prepare area for blasting</b>
<b>Assessment Task</b>	<b>Prepare the following for the blasting</b> 1. Arrange pre-blast operations 2. Maintain magazine /kit for blasting process 3. Transport blasting agents and explosives 4. Set-up blast site

I can.....

Performance Criteria	Yes	No
1. Select appropriate type of blasting agents, explosives and equipment according to blasting plan and ground conditions	<input type="checkbox"/>	<input type="checkbox"/>
2. Conduct equipment pre-start (visual) checks to ensure equipment is ready for operation	<input type="checkbox"/>	<input type="checkbox"/>
3. Use appropriate personal protective equipment	<input type="checkbox"/>	<input type="checkbox"/>
4. Identify and report potential risks and hazards according to work plan	<input type="checkbox"/>	<input type="checkbox"/>
5. Assess site and weather conditions and historical information of past performance to determine and clarify blasting requirements	<input type="checkbox"/>	<input type="checkbox"/>
6. Gain relevant approvals through submitting appropriate documentation and notifications	<input type="checkbox"/>	<input type="checkbox"/>
7. Complete organization of blast on time avoiding delays	<input type="checkbox"/>	<input type="checkbox"/>
8. Check hole depth according to drill plan	<input type="checkbox"/>	<input type="checkbox"/>
9. Communicate with other personnel using approved communication methods	<input type="checkbox"/>	<input type="checkbox"/>
10. Adhere to emergency procedures to ensure safety of personnel, plant and equipment	<input type="checkbox"/>	<input type="checkbox"/>
11. Label and segregate detonators, blasting agents and explosives according to SOP	<input type="checkbox"/>	<input type="checkbox"/>
12. Maintain inventory control systems to record and indicate type, quantity and shelf life of explosives	<input type="checkbox"/>	<input type="checkbox"/>
13. Secure detonators, blasting agents and explosives in their packaging to avoid spillage	<input type="checkbox"/>	<input type="checkbox"/>
14. Select sufficient quantity of detonators, blasting agents and explosives to conduct blast according to blast plan	<input type="checkbox"/>	<input type="checkbox"/>
15. Handle and separate detonators, blasting agents, explosives and equipment for transport	<input type="checkbox"/>	<input type="checkbox"/>
16. Display relevant safety signage on detonators, blasting agents and explosive transport vehicles	<input type="checkbox"/>	<input type="checkbox"/>

17. Transport detonators, blasting agents and explosives to correct location using designated route	<input type="checkbox"/>	<input type="checkbox"/>
18. Erect physical barricades and signage to protect pattern and avoid unauthorized access	<input type="checkbox"/>	<input type="checkbox"/>
19. Prime, load, stem and connect holes according to blast plan	<input type="checkbox"/>	<input type="checkbox"/>
20. Inspect blast site after required delay before clearances are given	<input type="checkbox"/>	<input type="checkbox"/>
21. Identify safe areas and potential dangers to personnel and equipment	<input type="checkbox"/>	<input type="checkbox"/>
22. Locate and dispose misfires	<input type="checkbox"/>	<input type="checkbox"/>
23. Flag large rocks for further fragmentation	<input type="checkbox"/>	<input type="checkbox"/>
24. Record blast outcomes indicating successes, misfires and general blast results	<input type="checkbox"/>	<input type="checkbox"/>
25. Returns unused explosives and ignition materials to store		
26. Perform general house keeping	<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)	<b>Prepare area for blasting</b>

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>Prepare the following for the blasting</b></p> <ol style="list-style-type: none"> <li><b>1. Arrange pre-blast operations</b></li> <li><b>2. Maintain magazine /kit for blasting process</b></li> <li><b>3. Transport blasting agents and explosives</b></li> <li><b>4. Set-up blast site</b></li> </ol>
Time:4 Hrs	<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 blasting agents, explosives and equipment according to blasting plan and ground conditions</li> <li>2. Conduct equipment pre-start (visual) checks to ensure equipment is ready for operation</li> <li>3. Use appropriate personal protective equipment</li> <li>4. Identify and report potential risks and hazards according to work plan</li> <li>5. Assess site and weather conditions and historical information of past performance to determine and clarify blasting requirements</li> <li>6. Gain relevant approvals through submitting appropriate documentation and notifications</li> <li>7. Complete organization of blast on time avoiding delays</li> <li>8. Check hole depth according to drill plan</li> <li>9. Communicate with other personnel using approved communication methods</li> <li>10. Adhere to emergency procedures to ensure safety of personnel, plant and equipment</li> <li>11. Label and segregate detonators, blasting agents and explosives according to SOP</li> </ol>

Minimum Evidence Required	<ol style="list-style-type: none"> <li>12. Maintain inventory control systems to record and indicate type, quantity and shelf life of explosives</li> <li>13. Secure detonators, blasting agents and explosives in their packaging to avoid spillage</li> <li>14. Select sufficient quantity of detonators, blasting agents and explosives to conduct blast according to blast plan</li> <li>15. Handle and separate detonators, blasting agents, explosives and equipment for transport</li> <li>16. Display relevant safety signage on detonators, blasting agents and explosive transport vehicles</li> <li>17. Transport detonators, blasting agents and explosives to correct location using designated route</li> <li>18. Erect physical barricades and signage to protect pattern and avoid unauthorized access</li> <li>19. Prime, load, stem and connect holes according to blast plan</li> <li>20. Inspect blast site after required delay before clearances are given</li> <li>21. Identify safe areas and potential dangers to personnel and equipment</li> <li>22. Locate and dispose misfires</li> <li>23. Flag large rocks for further fragmentation</li> <li>24. Record blast outcomes indicating successes, misfires and general blast results</li> <li>25. Returns unused explosives and ignition materials to store</li> <li>26. Perform general house keeping</li> </ol>
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## Assessors Judgment Guide

<b>Qualification</b>	National Vocational Certificate level 1 to 5, Mining Process Technology
<b>Competency Standard(s)</b>	<b>Prepare area for blasting</b>
<b>Candidate Details</b>	Name: _____ Registration/Roll Number: _____ Signature: _____
<b>Assessment Outcome</b>	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		Prepare the following for the blasting		
		<ol style="list-style-type: none"> <li>1. Arrange pre-blast operations</li> <li>2. Maintain magazine /kit for blasting process</li> <li>3. Transport blasting agents and explosives</li> <li>4. Set-up blast site</li> </ol>		
During the practical assessment, candidate demonstrated the following:		Yes	No	Remarks
1.	Selected appropriate type of blasting agents, explosives and equipment according to blasting plan and ground conditions			
2.	Conducted equipment pre-start (visual) checks to ensure equipment is ready for operation			
3.	Used appropriate personal protective equipment			
4.	Identified and report potential risks and hazards according to work plan			
5.	Assessed site and weather conditions and historical information of past performance to determine and clarify blasting requirements			
6.	Gained relevant approvals through submitting appropriate documentation and notifications			
7.	Completed organization of blast on time avoiding delays			
8.	Checked hole depth according to drill plan			
9.	Communicated with other personnel using approved communication methods			
10.	Adhered to emergency procedures to ensure safety of personnel, plant and equipment			
11.	Labeled and segregate detonators, blasting agents and explosives according to SOP			
12.	Maintained inventory control systems to record and indicate type, quantity and shelf life of explosives			
13.	Secured detonators, blasting agents and explosives in their packaging to avoid spillage			
14.	Selected sufficient quantity of detonators, blasting agents and explosives to conduct blast according to blast plan			
15.	Handled and separate detonators, blasting agents, explosives and equipment for transport			
16.	Displayed relevant safety signage on detonators, blasting agents and explosive transport vehicles			
17.	Transported detonators, blasting agents and explosives to correct location using designated route			
18.	Erected physical barricades and signage to protect pattern and avoid unauthorized access			
19.	Performed Prime, load, stem and connect holes according to blast plan			

National Vocational Certificate level 1 to 5, Mining Process Technology (**Prepare area for blasting**)

20.	Inspect blast site after required delay before clearances are given			
21.	Identify safe areas and potential dangers to personnel and equipment			
22.	Locate and dispose misfires			
23.	Flag large rocks for further fragmentation			
24.	Record blast outcomes indicating successes, misfires and general blast results			
25.	Returns unused explosives and ignition materials to store			
26.	Perform general house keeping			
<b>Competent</b> <input type="checkbox"/>		<b>Not Yet Competent</b> <input type="checkbox"/>		



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