

## Self-Assessment Checklist

<b>Candidate Name</b>	
<b>Registration No.</b>	
<b>Qualification</b>	National Vocational Certificate level 1 to 5, Mining Process Technology
<b>Competency Standards</b>	<ol style="list-style-type: none"> <li>1. Perform health, safety and environment practices</li> <li>2. Apply basic Occupational Health &amp; Safety regulations</li> <li>3. Set-up and prepare for drilling operations</li> <li>4. Perform drilling techniques for mining</li> <li>5. Illustrate basic parameters of blasting</li> <li>6. Conduct conveyor operations</li> <li>7. Install/Use system software</li> <li>8. Install / Use Application Software</li> <li>9. Draft office documents</li> <li>10. Manage graphic user interface</li> <li>11. Develop 2D drawings</li> <li>12. Develop 3D drawing</li> <li>13. Manage Inventory of mine material</li> </ol>
<b>Assessment Task</b>	<p><b>Perform the following task to complete Level-3 of mining process</b></p> <ol style="list-style-type: none"> <li>1. Draw a 2D and 3D Drawing by using software</li> <li>2. Setup drilling and blasting procedures as per site</li> <li>3. Execute conveyor operations</li> </ol>

I can.....

Performance Criteria	Yes	No
1. Install system software as required	<input type="checkbox"/>	<input type="checkbox"/>
2. Develop 2D drawing as per plan	<input type="checkbox"/>	<input type="checkbox"/>
3. Develop 3D Drawing as per 2D plan	<input type="checkbox"/>	<input type="checkbox"/>
4. Applies mine site safety reporting procedures	<input type="checkbox"/>	<input type="checkbox"/>
5. Use appropriate personal protective equipment	<input type="checkbox"/>	<input type="checkbox"/>
6. Prepare drilling site for drilling	<input type="checkbox"/>	<input type="checkbox"/>
7. Mark out drill pattern ensuring it is visible and aids the drilling process	<input type="checkbox"/>	<input type="checkbox"/>
8. Maintain the blasting area for drilling according to safety measures.	<input type="checkbox"/>	<input type="checkbox"/>
9. Perform rotary drilling as per requirements	<input type="checkbox"/>	<input type="checkbox"/>
10. Remove drill rig and ancillary services, where applicable, to allocated area	<input type="checkbox"/>	<input type="checkbox"/>
11. Clear all drilling area after operation	<input type="checkbox"/>	<input type="checkbox"/>

12. Complete all required records and documentation	<input type="text"/>	<input type="text"/>
13. Select appropriate type of blasting agents, explosives and equipment according to blasting plan and ground conditions	<input type="text"/>	<input type="text"/>
14. Charge Drill holes and evacuate the blast area.	<input type="text"/>	<input type="text"/>
15. Adhere to emergency procedures to ensure safety of personnel, plant and equipment	<input type="text"/>	<input type="text"/>
16. Secure blasting agents and explosives in their packaging to avoid spillage	<input type="text"/>	<input type="text"/>
17. Handle and separate detonator, blasting agents, explosives and equipment for transport	<input type="text"/>	<input type="text"/>
18. Install physical barricades and signage to protect pattern and avoid unauthorized access	<input type="text"/>	<input type="text"/>
19. Record blast outcomes indicating successes, misfires and general blast results and perform general house keeping	<input type="text"/>	<input type="text"/>
20. Perform conveyor pre-operational checks prior to conveyor operations	<input type="text"/>	<input type="text"/>
21. Activate audio and visual safety indicators before starting conveying operation	<input type="text"/>	<input type="text"/>
22. Complete work according to agreed work plan and outcomes	<input type="text"/>	<input type="text"/>
23. Remove all debris, complete all required records, documentation accurately and promptly	<input type="text"/>	<input type="text"/>
24. Maintain the Log Register using given format	<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)	<ol style="list-style-type: none"><li>1. Perform health, safety and environment practices</li><li>2. Apply basic Occupational Health &amp; Safety regulations</li><li>3. Set-up and prepare for drilling operations</li><li>4. Perform drilling techniques for mining</li><li>5. Illustrate basic parameters of blasting</li><li>6. Conduct conveyor operations</li><li>7. Install/Use system software</li><li>8. Install / Use Application Software</li><li>9. Draft office documents</li><li>10. Manage graphic user interface</li><li>11. Develop 2D drawings</li><li>12. Develop 3D drawing</li><li>13. Manage Inventory of mine material</li></ol>

Candidate Details	<p>Name_____</p> <p>Registration/Roll Number_____</p>
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 task to complete Level-3 of mining process</b></p> <ol style="list-style-type: none"> <li>1. Draw a 2D and 3D Drawing by using software</li> <li>2. Setup drilling and blasting procedures as per site</li> <li>3. Execute conveyor operations</li> </ol>
Time:5 hours	<p>During a practical assessment, under observation by an assessor, you are required to demonstrate the following criteria:</p> <ol style="list-style-type: none"> <li>1. Install system software as required</li> <li>2. Develop 2D drawing as per plan</li> <li>3. Develop 3D Drawing as per 2D plan</li> <li>4. Applies mine site safety reporting procedures</li> <li>5. Use appropriate personal protective equipment</li> <li>6. Prepare drilling site for drilling</li> <li>7. Mark out drill pattern ensuring it is visible and aids the drilling process</li> <li>8. Maintain the blasting area for drilling according to safety measures.</li> <li>9. Perform rotary drilling as per requirements</li> <li>10. Remove drill rig and ancillary services, where applicable, to allocated area</li> <li>11. Clear all drilling area after operation</li> <li>12. Complete all required records and documentation</li> <li>13. Select appropriate type of blasting agents, explosives and equipment according to blasting plan and ground conditions</li> <li>14. Charge Drill holes and evacuate the blast area.</li> <li>15. Adhere to emergency procedures to ensure safety of personnel, plant and equipment</li> <li>16. Secure blasting agents and explosives in their packaging to avoid spillage</li> <li>17. Handle and separate detonator, blasting agents, explosives and equipment for transport</li> <li>18. Install physical barricades and signage to protect pattern and avoid unauthorized access</li> <li>19. Record blast outcomes indicating successes, misfires and general blast results and perform general house keeping</li> <li>20. Perform conveyor pre-operational checks prior to conveyor operations</li> <li>21. Activate audio and visual safety indicators before starting conveying operation</li> <li>22. Complete work according to agreed work plan and outcomes</li> <li>23. Remove all debris, complete all required records, documentation accurately and promptly</li> <li>24. Maintain the Log Register using given format</li> </ol>
Minimum Evidence Required	

## Assessors Judgment Guide

<b>Qualification</b>	National Vocational Certificate level 1 to 5, Mining Process Technology
<b>Competency Standard(s)</b>	<ol style="list-style-type: none"> <li>1. Perform health, safety and environment practices</li> <li>2. Apply basic Occupational Health &amp; Safety regulations</li> <li>3. Set-up and prepare for drilling operations</li> <li>4. Perform drilling techniques for mining</li> <li>5. Illustrate basic parameters of blasting</li> <li>6. Conduct conveyor operations</li> <li>7. Install/Use system software</li> <li>8. Install / Use Application Software</li> <li>9. Draft office documents</li> <li>10. Manage graphic user interface</li> <li>11. Develop 2D drawings</li> <li>12. Develop 3D drawing</li> <li>13. Manage Inventory of mine material</li> </ol>
<b>Candidate Details</b>	Name: _____ Registration/Roll Number: _____ Signature: _____
<b>Assessment Outcome</b>	<div style="display: flex; justify-content: space-between; align-items: center;"> <span><b>COMPETENT</b> <input type="checkbox"/></span> <span><b>NOT YET COMPETENT</b> <input type="checkbox"/></span> </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

<b>Assessment Task</b>	<b>Perform the following task to complete Level-3 of mining process</b> <ol style="list-style-type: none"> <li>1. Draw a 2D and 3D Drawing by using software</li> <li>2. Setup drilling and blasting procedures as per site</li> <li>3. Execute conveyor operations</li> </ol>			
<b>During the practical assessment, candidate demonstrated the following:</b>		<b>Yes</b>	<b>No</b>	<b>Remarks</b>
1.	Installed system software as required			
2.	Developed 2D drawing as per plan			
3.	Developed 3D Drawing as per 2D plan			
4.	Applied mine site safety reporting procedures			
5.	Used appropriate personal protective equipment			
6.	Prepared drilling site for drilling			
7.	Marked out drill pattern ensuring it is visible and aids the drilling process			
8.	Maintained the blasting area for drilling according to safety measures.			
9.	Performed rotary drilling as per requirements			
10.	Removed drill rig and ancillary services, where applicable, to allocated area			
11.	Cleared all drilling area after operation			
12.	Completed all required records and documentation			
13.	Selected appropriate type of blasting agents, explosives and equipment according to blasting plan and ground conditions			
14.	Charged Drill holes and evacuate the blast area.			
15.	Adhered to emergency procedures to ensure safety of personnel, plant and equipment			
16.	Secured blasting agents and explosives in their packaging to avoid spillage			
17.	Handled and separate detonator, blasting agents, explosives and equipment for transport			
18.	Installed physical barricades and signage to protect pattern and avoid unauthorized access			
19.	Recorded blast outcomes indicating successes, misfires and general blast results and perform general house keeping			
20.	Performed conveyor pre-operational checks prior to conveyor operations			
21.	Activated audio and visual safety indicators before starting conveying operation			
22.	Completed work according to agreed work plan and outcomes			
23.	Removed all debris, complete all required records, documentation accurately and promptly			
24.	Maintained the Log Register using given format			
<b>Competent</b> <input type="checkbox"/>		<b>Not Yet Competent</b> <input type="checkbox"/>		

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