

## Self-Assessment Checklist

<b>Candidate Name</b>	
<b>Registration No.</b>	
<b>Qualification</b>	Mining Process Technology
<b>Competency Standards</b>	Apply methods of quality control in aggregate, concrete, grout and shotcrete
<b>Assessment Task</b>	<p>Perform the following test as per the given area</p> <ol style="list-style-type: none"> <li>1) Perform crushing test</li> <li>2) Perform Impact test</li> <li>3) Carry out Soundness test</li> <li>4) Execute Shape test</li> <li>5) Perform Specific gravity test</li> <li>6) Carry out Absorption test</li> </ol> <p><i>Note: Assessor should provide tools and equipment as required for the assessment.</i></p>

I can.....

Performance Criteria	Yes	No
1. Perform crushing and grinding of the required rock sample by using jaw and roll crusher	<input type="checkbox"/>	<input type="checkbox"/>
2. Collect and calculate the different fractions using weighing balance	<input type="checkbox"/>	<input type="checkbox"/>
3. Place sample under the knob of impact tester	<input type="checkbox"/>	<input type="checkbox"/>
4. Apply the weight and obtain the reading	<input type="checkbox"/>	<input type="checkbox"/>
5. Prepare the solution of different concentration of alkalies	<input type="checkbox"/>	<input type="checkbox"/>
6. Perform sodium and potassium reactivity test	<input type="checkbox"/>	<input type="checkbox"/>
7. Estimate the loss of material after standardized time period	<input type="checkbox"/>	<input type="checkbox"/>
8. Calculate the weight difference before and after treatment using weighing digital balance	<input type="checkbox"/>	<input type="checkbox"/>
9. Select the rock sample for testing	<input type="checkbox"/>	<input type="checkbox"/>
10. Add rock sample in ball/rod mill	<input type="checkbox"/>	<input type="checkbox"/>
11. Use Sieve wet and dry Shaker	<input type="checkbox"/>	<input type="checkbox"/>
12. Weigh the given sample with and without water	<input type="checkbox"/>	<input type="checkbox"/>
13. Calculate the values by using Archimedes' law	<input type="checkbox"/>	<input type="checkbox"/>
14. Calculate the weight after specific time period	<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)	Apply methods of quality control in aggregate, concrete, grout and shotcrete

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>Perform the following test as per the given area</p> <ol style="list-style-type: none"> <li>1) Perform crushing test</li> <li>2) Perform Impact test</li> <li>3) Carry out Soundness test</li> <li>4) Execute Shape test</li> <li>5) Perform Specific gravity test</li> <li>6) Carry out Absorption test</li> </ol> <p><i>Note: Assessor should provide tools and equipment 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. Perform crushing and grinding of the required rock sample by using jaw and roll crusher</li> <li>2. Collect and calculate the different fractions using weighing balance</li> <li>3. Place sample under the knob of impact tester</li> <li>4. Apply the weight and obtain the reading</li> <li>5. Prepare the solution of different concentration of alkalies</li> <li>6. Perform sodium and potassium reactivity test</li> <li>7. Estimate the loss of material after standardized time period</li> <li>8. Calculate the weight difference before and after treatment using weighing digital balance</li> <li>9. Select the rock sample for testing</li> <li>10. Perform rock sample in ball/rod mill</li> <li>11. Use Sieve wet and dry Shaker</li> <li>12. Weigh the given sample with and without water</li> <li>13. Calculate the values by using Archimedes' law</li> <li>14. <b>Calculate the weight after specific time period</b></li> </ol>
Minimum Evidence Required	

National Vocational Certificate level 1 to 5, Mining Process Technology (Apply methods of quality control in aggregate, concrete, grout and shotcrete)

## Assessors Judgment Guide

<b>Qualification</b>	National Vocational Certificate level 1 to 5, Mining Process Technology
<b>Competency Standard(s)</b>	Apply methods of quality control in aggregate, concrete, grout and shotcrete
<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

<b>Assessment Task</b>	Perform the following test as per the given area 1) Perform crushing test 2) Perform Impact test 3) Carry out Soundness test 4) Execute Shape test 5) Perform Specific gravity test 6) Carry out Absorption test  <i>Note: Assessor should provide tools and equipment 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.	Performed crushing and grinding of the required rock sample by using jaw and roll crusher			
2.	Collected and calculate the different fractions using weighing balance			
3.	Placed sample under the knob of impact tester			
4.	Applied the weight and obtain the reading			
5.	Prepared the solution of different concentration of alkalies			
6.	Performed sodium and potassium reactivity test			
7.	Estimated the loss of material after standardized time period			
8.	Calculated the weight difference before and after treatment using weighing digital balance			
9.	Selected the rock sample for testing			
10.	Performed rock sample in ball/rod mill			
11.	Used Sieve wet and dry Shaker			
12.	Weight the given sample with and without water			
13.	Calculate the values by using Archimedes' law			
14.	Calculated the weight after specific time period			
<b>Competent</b> <input type="checkbox"/>		<b>Not Yet Competent</b> <input type="checkbox"/>		

National Vocational Certificate level 1 to 5, Mining Process Technology (Apply methods of quality control in aggregate, concrete, grout and shotcrete)

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