

Self-Assessment Checklist

Candidate Name	
Registration No.	
Qualification	Mining Process Technology
Competency Standards	Apply methods of quality control in aggregate, concrete, grout and shotcrete
Assessment Task	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>

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>To meet this standard, you are required to complete the following within the given time frame (for practical demonstration & assessment):</p> <p>Perform the following test as per the given area</p> <ol style="list-style-type: none"> 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 <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"> 1. Perform crushing and grinding of the required rock sample by using jaw and roll crusher 2. Collect and calculate the different fractions using weighing balance 3. Place sample under the knob of impact tester 4. Apply the weight and obtain the reading 5. Prepare the solution of different concentration of alkalies 6. Perform sodium and potassium reactivity test 7. Estimate the loss of material after standardized time period 8. Calculate the weight difference before and after treatment using weighing digital balance 9. Select the rock sample for testing 10. Perform rock sample in ball/rod mill 11. Use Sieve wet and dry Shaker 12. Weigh the given sample with and without water 13. Calculate the values by using Archimedes' law 14. Calculate the weight after specific time period
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

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: _____ Signature: _____
Assessment Outcome	COMPETENT <input type="checkbox"/> NOT YETCOMPETENT <input type="checkbox"/> Name of the Assessor _____ Assessor's code: _____ Signature: _____

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

Assessment Task	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>			
During the practical assessment, candidate demonstrated the following:		Yes	No	Remarks
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			
Competent <input type="checkbox"/>		Not Yet Competent <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 _____