Self-Assessment Checklist

Candidate Name	
Registration No.	
Qualification	Mining Process Technology
Competency Standards	Interpret geophysical data collection
Assessment Task	Interpret the results of geophysical data acquisition for mining *Note: Assessor should provide geophysical models/maps as required for the assessment.*

I can……..

Performance Criteria	**Yes**	**No**
1. Identify geology, tectonic setting and geomorphology of the area	☐	☐
2. Identify targeted mineral zone	☐	☐
3. Layout plan of geophysical profiles targeting the mine area	☐	☐
4. Select on ground site for geophysical survey	☐	☐
5. Identify depth of penetration of targeted zone	☐	☐
6. Interpret 2D/3D and sub-surface of anomalous mineral zone as per given models	☐	☐
7. Measure depth and area of anomalous zones	☐	☐
8. Analyze electrical resistivity of the given earth materials	☐	☐
9. Analyze seismic velocity of the given earth materials	☐	☐
10. Recognize density contrast of the given earth materials	☐	☐
11. Analyze magnetic response of the given earth materials	☐	☐

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)	Interpret geophysical data collection

Candidate Details	Name_____ Registration/Roll Number_____
Guidance for Candidate	**To meet this standard, you are required to complete the following within the given time frame (for practical demonstration & assessment):** Interpret the results of geophysical data acquisition for mining *Note: Assessor should provide geophysical models/maps as required for the assessment.*
Time:180 mins	During a practical assessment, under observation by an assessor, you are required to demonstrating the following criteria: 1. Identify geology, tectonic setting and geomorphology of the area 2. Identify targeted mineral zone 3. Layout plan of geophysical profiles targeting the mine area 4. Select on ground site for geophysical survey 5. Identify depth of penetration of targeted zone 6. Interpret 2D/3D and sub-surface of anomalous mineral zone as per given models 7. Measure depth and area of anomalous zones 8. Analyze electrical resistivity of the given earth materials 9. Analyze seismic velocity of the given earth materials 10. Recognize density contrast of the given earth materials 11. Analyze magnetic response of the given earth materials
Minimum Evidence Required	

Assessors Judgment Guide

Qualification	National Vocational Certificate level 1 to 5, Mining Process Technology
Competency Standard(s)	Interpret geophysical data collection
Candidate Details	Name: _____ Registration/Roll Number: _____Signature: _____
Assessment Outcome	**COMPETENT** ☐ **NOT YETCOMPETENT** ☐ **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	Interpret the results of geophysical data acquisition for mining *Note: Assessor should provide geophysical models/maps as required for the assessment.*

During the practical assessment, candidate demonstrated the following:		**Yes**	**No**	**Remarks**
1.	Identify geology, tectonic setting and geomorphology of the area			
2.	Identify targeted mineral zone			
3.	Layout plan of geophysical profiles targeting the mine area			
4.	Select on ground site for geophysical survey			
5.	Identify depth of penetration of targeted zone			
6.	Interpret 2D/3D and sub-surface of anomalous mineral zone as per given models			
7.	Measure depth and area of anomalous zones			
8.	Analyze electrical resistivity of the given earth materials			
9.	Analyze seismic velocity of the given earth materials			
10.	Recognize density contrast of the given earth materials			
11.	Analyze magnetic response of the given earth materials			

Competent ☐	**Not Yet Competent** ☐

Feedback to the Candidate
Candidate's Signature_____**Assessor's Signature**_____