

Assessment Evidence Guide

For

“Crush Plant Assistant”

Level-2

(Summative Assessment)



**National Vocational & Technical
Training Commission**

Title of Qualification: National Vocational Certificate Level 2 in Crush Plant Technology “Crush Plant Assistant ”	CS Code:	Level: 2	Version: 01
Competency Standard Title: Follow Safety Rules at Site Perform Basic Communication Skills Demonstrate Basic Numeracy Skills Perform Basic Technical Drawing Perform Basic Computer Operations Maintain Inventory at Site Perform Bench Work Perform Basic Routine Maintenance of Plant	Assessment Date (DD/MM/YY): Assessment Time: 4 hrs.		

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>Assessment Task 1: Candidate is required to conduct pre- operative checks and perform basic services of cooling, lubricating and air- intake system of plant equipment as per instructions given by assessor.</p> <p>Assessment Task 2: Candidate is required to make work piece according to job assign by assessor including following operations:</p> <ul style="list-style-type: none"> o Sawing o Filing o Hand drilling and tapping <p>And complete:</p> <ol style="list-style-type: none"> 1. Knowledge assessment test (Written or Oral) 2. Portfolios at the time of assessment (if any)
Minimum Evidence Required	<p>During a practical assessment, under observation by an assessor, you will complete:</p> <p>Assessment Task 1</p> <p>Performance Criteria 1:Inspect oil, water and filter of compressor and generator</p> <p>Performance Criteria 2:Check the oil level in all gear boxes, hydraulic unit and roller as per the procedures set by the manufacturer</p> <p>Performance Criteria 3: Check and adjust belts and ropes are tightened and aligned as per machinery manual</p> <p>Performance Criteria 4:Inspect and clean crusher jaws</p> <p>Performance Criteria 5:Check and tightened all bolts and bearing sets</p> <p>Performance Criteria 6:Check and report damaged wiring , loose electrical fitting ,switches and sensor</p> <p>Performance Criteria 7:Check and tighten all hydraulic and pneumatic connection and condition of flexible tube and rubber seals</p> <p>Performance Criteria 8:Inspect and report damage conveyer belt</p> <p>Performance Criteria 9:Top up oil levels</p> <p>Performance Criteria 10:Adjust coolant level</p> <p>Performance Criteria 11:Replace belts and hoses</p> <p>Performance Criteria 12:Check air service indicators</p>

	<p>Performance Criteria 13: Replace intake hoses and clamps</p> <p>Performance Criteria 14: Check battery terminals</p> <p>Performance Criteria 15: Check water level of batteries</p> <p>Performance Criteria 16: Replace batteries</p> <p>Performance Criteria 17: Maintain housekeeping</p> <p>Performance Criteria 18: Select PPE according to job</p> <p>Performance Criteria 19: Wear PPE according to job</p> <p>Performance Criteria 20: Identify the safety signs and symbols</p> <p>Performance Criteria 21: Receive the instructions from Supervisor</p>
	<p>Assessment Task 2</p> <p>Performance Criteria 1: Select blade according to the material and set in hacksaw frame</p> <p>Performance Criteria 2: Mark layout of job as per drawing using appropriate marking tool</p> <p>Performance Criteria 3: Perform clamping of the work piece according to the instructions</p> <p>Performance Criteria 4: Perform sawing according to the instructions</p> <p>Performance Criteria 5: Select required file type according to the material</p> <p>Performance Criteria 6: Perform filing as per standard procedures</p> <p>Performance Criteria 7: Select hand brace and drilling bit according to the job requirement.</p> <p>Performance Criteria 8: Use marking tool and measuring instruments as per job requirement.</p> <p>Performance Criteria 9: Perform drilling as per standard procedures</p> <p>Performance Criteria 10: Inspect quality of the component at suitable intervals.</p> <p>Performance Criteria 11: Perform post drilling operations</p> <p>Performance Criteria 12: Select required tap according to the job specification</p> <p>Performance Criteria 13: Perform taping as per job specification</p> <p>Performance Criteria 14: Verify the final job with given drawing</p> <p>Performance Criteria 15: Clean and maintain all workplace tools & machines as per housekeeping checklists or given instructions</p> <p>Performance Criteria 16: Identify risk associated with job to be done</p> <p>Performance Criteria 17: Wear PPE according to job</p> <p>Performance Criteria 18: Erect barricades, hoardings, signage in the hazardous areas</p> <p>Performance Criteria 19: Carry out the instructions of the supervisor</p>
	<p>Portfolios required at the time of assessment (if any) for</p> <ol style="list-style-type: none"> 1. Folder includes calculations of Area and Volume of Aggregate 2. Folder includes different drawings and symbols 3. Folder include report about capacity of machine before use and inventory record 4. Folder includes evidence of reaming project <p>Performance Criteria 1: Calculate area of figures</p> <p>Performance Criteria 2: Calculate volume of solid figures</p> <p>Performance Criteria 3: Calculate quantities of materials in the stack/pile of stone aggregate by incorporating time saving practices</p> <p>Performance Criteria 4: Draw third angle projection</p>

	<p>Performance Criteria 5: Draw missing views</p> <p>Performance Criteria 6: Draw different section views</p> <p>Performance Criteria 7: Draw different drawing symbols</p> <p>Performance Criteria 8: Draw geometrical tolerance</p> <p>Performance Criteria 9: Print Word Documents according to requirements</p> <p>Performance Criteria 10: Identify capacity of plant/machinery as per manufacturers specifications</p> <p>Performance Criteria 11: Generate demand for defective tools and equipment</p> <p>Performance Criteria 12: Prepare record of all tools and equipment</p> <p>Performance Criteria 13: Perform reaming as per job specification</p>
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Continued on following page

Assessors Judgment Guide (to be completed by the Assessor and signed both by the assessor and the candidate after the assessment)

Candidate Details	Name: Registration/Roll Number: Candidate Signature:.....
Assessment Outcome	COMPETENT <input type="checkbox"/> NOT YET COMPETENT <input type="checkbox"/> Name of the Assessor: Assessor's code: Signature of the Assessor:.....

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							
Each Assessment Task (with performance criteria)							

Assessment Task 1		Description of Assessment task 1 Conduct pre- operative checks and perform basic services of cooling, lubricating and air- intake system of plant equipment as per instructions given by assessor.		
During the practical assessment, candidate demonstrated the following:		Yes	No	Remarks
1.	Inspect oil, water and filter of compressor and generator			
2.	Check the oil level in all gear boxes, hydraulic unit and roller as per the procedures set by the manufacturer			
3.	Check and adjust belts and ropes are tightened and aligned as per machinery manual			
4.	Inspect and clean crusher jaws			
5.	Check and tightened all bolts and bearing sets			
6.	Check and report damaged wiring , loose electrical fitting ,switches and sensor			
7.	Check and tighten all hydraulic and pneumatic connection and condition of flexible tube and rubber seals			
8.	Inspect and report damage conveyer belt			
9.	Top up oil levels			
10.	Adjust coolant level			
11.	Replace belts and hoses			
12.	Check air service indicators			
13.	Replace intake hoses and clamps			
14.	Check battery terminals			
15.	Check water level of batteries			
16.	Replace batteries			
17.	Maintain housekeeping			
18.	Select PPE according to job			
19.	Wear PPE according to job			
20.	Identify the safety signs and symbols			
21.	Receive the instructions from Supervisor			
Competent <input type="checkbox"/>		Not Yet Competent <input type="checkbox"/>		

Each Assessment Task (with performance criteria)				
Assessment Task 2		Description of Assessment Task 2 Make work piece according to job assign by assessor including following operations: <ul style="list-style-type: none"> ○ Sawing ○ Filing ○ Drilling and tapping 		
During the practical assessment, candidate demonstrated the following:		Yes	No	Remarks
1.	Select blade according to the material and set in hacksaw frame			
2.	Mark layout of job as per drawing using appropriate marking tool			
3.	Perform clamping of the work piece according to the instructions			
4.	Perform sawing according to the instructions			
5.	Select required file type according to the material			
6.	Perform filing as per standard procedures			
7.	Select hand brace and drilling bit according to the job requirement.			
8.	Use marking tool and measuring instruments as per job requirement.			
9.	Perform drilling as per standard procedures			
10.	Inspect quality of the component at suitable intervals.			
11.	Perform post drilling operations			
12.	Select required tap according to the job specification			
13.	Perform tapping as per job specification			
14.	Verify the final job with given drawing			
15.	Clean and maintain all workplace tools & machines as per housekeeping checklists or given instructions			
16.	Identify risk associated with job to be done			
17.	Wear PPE according to job			
18.	Erect barricades, hoardings, signage in the hazardous areas			
19.	Carry out the instructions of the supervisor			
Competent <input type="checkbox"/>		Not Yet Competent <input type="checkbox"/>		

Portfolio		Description of Portfolio		
		1. Folder includes calculations of Area and Volume of Aggregate 2. Folder includes different drawings and symbols 3. Folder include report about capacity of machine before use and inventory record 4. Folder includes evidence of reaming project		
During the practical assessment, candidate demonstrated the following:		Yes	No	Remarks
1.	Calculate area of figures			
2.	Calculate volume of solid figures			
3.	Calculate quantities of materials in the stack/pile of stone aggregate by incorporating time saving practices			
4.	Draw third angle projection			
5.	Draw missing views			
6.	Draw different section views			
7.	Draw different drawing symbols			
8.	Draw geometrical tolerance			
9.	Print Word Documents according to requirements			
10.	Identify capacity of plant/machinery as per manufacturers specifications			
11.	Generate demand for defective tools and equipment			
12.	Prepare record of all tools and equipment			
13.	Perform reaming as per job specification			
Competent <input type="checkbox"/>		Not Yet Competent <input type="checkbox"/>		

Written Assessment Guide
For
“Crush Plant Assistant”
Level-2
(Summative Assessment)



National Vocational & Technical
Training Commission

Title of Qualification: National Vocational Certificate Level 2 in Crush Plant Technology “Crush Plant Assistant ”	CS Code:	Level: 2	Version: 01
Competency Standard Title: Follow Safety Rules at Site Perform Basic Communication Skills Demonstrate Basic Numeracy Skills Perform Basic Technical Drawing Perform Basic Computer Operations Maintain Inventory at Site Perform Bench Work Perform Basic Routine Maintenance of Plant	Assessment Date (DD/MM/YY): Assessment Time: 30 min		

Guidance for Candidate	To complete your assessment for this Competency Standard, you need to answer the questions on the following pages successfully.
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Assessors Guide (to be completed by the Assessor and signed both by the assessor and the candidate after the assessment)

Candidate Details	Name: Registration/Roll Number: Candidate Signature:.....
Written Assessment Outcome	COMPETENT <input type="checkbox"/> NOT YET COMPETENT <input type="checkbox"/> Name of the Assessor: Assessor's code: Signature of the Assessor:.....

Title of Qualification: National Vocational Certificate Level 2 in Crush Plant Technology "Crush Plant Assistant "	CS Code:	Level: 2	Version: 01
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WRITTEN ASSESSMENT

Question	Candidate's answer
1. Enlist any two Components of Crusher.	
2. Define the Cooling System	
3. Enlist any five layout tools	
4. What is angle of a drill tip?	
5. Classify hacksaw blades	
6. Enlist any two general safety rules	
7. Define Hauling machine	
8. Define capacity of crushing plant	
9. Ctrl+A in MS word	
10. What are the 5 C's of communication?	
11. Enlist the types of linear dimensioning methods	
12. Calculate the volume of Cube, having $6 \times 6 \times 6$ cm dimensions?	

ANSWER KEY

Sr.	Answers
1.	Toggle plates, the pitman, ply wheel.
2.	The type of system in which cooling is provided to the hot components specially used in engines.
3.	Scriber ,Tri square ,Combination set Mallet ,Compass ,Center punch ,Prick punch
4.	180 angle
5.	Hack saw blades are classified according to no. of teeth per inch or pitch of teeth
6.	<ol style="list-style-type: none"> 1. Your safety is your personal responsibility. 2. Always follow the correct procedures. 3. Never take shortcuts. 4. Take responsibility and clean up if you made a mess. 5. Clean and organize your workspace. 6. Ensure a clear and easy route to emergency exits and equipment. 7. Be alert and awake on the job.
7.	Hauling equipment is used to move building/drilling supplies, soil, and other materials.
8.	Crush plant capacity is the measure of its production quantum
9.	Select whole document
10.	Clarity, Consistency, Creativity, Content, Connections
11.	Horizontal, vertical, aligned
12.	216 cm ³