

Assessment Evidence Guide for

“Crush Plant Assistant”

Level-2

Demonstrate Basic Numeracy Skills

(Formative 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: Demonstrate Basic Numeracy Skill Perform Basic Communication Skills	Assessment Date (DD/MM/YY): Assessment Time :		

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 measure the boundaries of specified land and calculate perimeter, area and convert the measuring units assigned by assessor.</p> <p>Assessment Task 2: Candidate is required to calculate volume of regular stack of aggregates in different situations assigned by assessor.</p> <p>And complete:</p> <p>3. Knowledge assessment test (Written or Oral)</p> <p>4. Portfolios at the time of assessment (if any)</p>
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: Select measuring tools as per requirement</p> <p>Performance Criteria 2: Identify imperial and metric system</p> <p>Performance Criteria 3: Perform addition</p> <p>Performance Criteria 4: Perform subtraction</p> <p>Performance Criteria 5: Perform multiplication</p> <p>Performance Criteria 6: Calculate area of geometrical figures</p> <p>Performance Criteria 7: Perform inter conversion of Measuring units</p> <p>Performance Criteria 8: Receive the instructions from Supervisor</p> <p>Performance Criteria 9: Carry out the instructions of the supervisor</p> <hr/> <p>Assessment Task 2</p> <p>Performance Criteria 1: Perform addition</p> <p>Performance Criteria 2: Perform subtraction</p> <p>Performance Criteria 3: Perform multiplication</p> <p>Performance Criteria 4: Perform division</p> <p>Performance Criteria 5: Calculate percentage</p> <p>Performance Criteria 6: Calculate area of geometrical figures</p> <p>Performance Criteria 7: Calculate volume of solid figures</p> <p>Performance Criteria 8: Calculate quantities of materials in the stack/pile of stone aggregate by incorporating time saving practices</p>

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 Measure the boundaries of specified land and calculate perimeter, area and convert the measuring units assigned by assessor.				
During the practical assessment, candidate demonstrated the following:					Yes	No	Remarks
1.	Select measuring tools as per requirement						
2.	Identify imperial and metric system						
3.	Perform addition						
4.	Perform subtraction						
5.	Perform multiplication						
6.	Calculate area of geometrical figures						
7.	Perform inter conversion of Measuring units						
8.	Carefully listen and note down the instructions of Supervisor						
9.	Carry out the instructions of the supervisor						
Competent <input type="checkbox"/>				Not Yet Competent <input type="checkbox"/>			

Assessment Task 2		Description of Assessment Task 2 Calculate volume of regular stack of aggregates in different situations assigned by assessor.		
During the practical assessment, candidate demonstrated the following:		Yes	No	Remarks
1.	Perform addition			
2.	Perform subtraction			
3.	Perform multiplication			
4.	Perform division			
5.	Calculate percentage			
6.	Calculate area of geometrical figures			
7.	Calculate volume of solid figures			
8.	Calculate quantities of materials in the stack/pile of stone aggregate by incorporating time saving practices			
Competent <input type="checkbox"/>		Not Yet Competent <input type="checkbox"/>		

Written Assessment Guide for

“Crush Plant Assistant”

Level-2

Demonstrate Basic Numeracy Skills



**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: Demonstrate Basic Numeracy Skills Perform Basic Communication Skills	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
Competency Standard Title: Demonstrate Basic Numeracy Skills Perform Basic Communication Skills	Assessment Date (DD/MM/YY): Assessment Time: 30 min		

WRITTEN ASSESSMENT

Question	Candidate's answer
1. How many inches in 4'-6"?	
2. Calculate the volume of Cube, having $6 \times 6 \times 6$ cm dimensions?	
3. A pond is 50 m long, 30 m wide and 2 m deep. Find the capacity of the pond in cubic meter.	
4. Calculate the volume of cylinder, having diameter of 6 cm & height is 50 cm?	
5. Find the length of the edge of the cube, if its area is 2400 sq.cm	
6. If the sidewall of a cubic structure has length 7m, then find the total surface area?	
7. One nanometer is equal to?	
8. Measuring cylinder is used to measure the?	
9. Enlist five Verbal communication techniques?	
10. Enlist non-verbal communication techniques?	

ANSWER KEY

Sr.	Answers
1.	54"
2.	216 cm ³
3.	3000 m ³
4.	1413.90 cm ³
5.	20 cm
6.	294 sq meter
7.	10 ⁻⁹ m
8.	volume of aggregates
9.	<ul style="list-style-type: none">• Active listening• Clarity and conciseness• Confidence• Empathy• Friendliness• Open-mindedness• Giving and soliciting feedback• Confidence• Respectfulness
10.	<ul style="list-style-type: none">• Body language• Tone of voice

Assessment Evidence Guide

for

“Crush Plant Assistant”

Level-2

Perform Basic Technical Drawings
(Formative 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: Perform Basic Technical Drawings Follow Safety at Site Perform Basic Communication Skills	Assessment Date (DD/MM/YY): Assessment Time:		

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 draw and label the pattern with simple geometrical shapes given by assessor.</p> <p>Assessment Task 2: Candidate is required to draw, label and dimension the following orthographic projection of simple objects given by assessor.</p> <ul style="list-style-type: none"> • First angle view • Third angle view • Missing view • Section view <p>And complete:</p> <p>5. Knowledge assessment test (Written or Oral)</p> <p>6. Portfolios at the time of assessment (if any)</p>
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: Draw different types of lettering</p> <p>Performance Criteria 2: Draw different types of lines</p> <p>Performance Criteria 3: Draw different geometrical figures</p> <p>Performance Criteria 4: Draw simple curve</p> <p>Performance Criteria 5: Create a pattern with simple shapes</p> <p>Performance Criteria 6: Treat team members with respect</p> <p>Performance Criteria 7: Maintain positive relationships to achieve common organizational goals</p> <p>Performance Criteria 8: Receive the instructions from Supervisor</p> <p>Performance Criteria 9: Report unsafe condition to immediate supervisor (shift position)</p>

	<p>Assessment Task 2</p> <p>Performance Criteria 1: Draw first angle projection</p> <p>Performance Criteria 2: Draw third angle projection</p> <p>Performance Criteria 3: Draw missing views</p> <p>Performance Criteria 4: Draw different section views</p> <p>Performance Criteria 5: Draw different types of dimensions.</p> <p>Performance Criteria 6: Draw geometrical tolerance</p> <p>Performance Criteria 7: Draw different drawing symbols</p> <p>Performance Criteria 8: Get work related information from team</p> <p>Performance Criteria 9: Carry out the instructions of the supervisor</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 Draw and label the pattern with simple geometrical shapes given by assessor.				
During the practical assessment, candidate demonstrated the following:					Yes	No	Remarks
1.	Draw different types of lettering						
2.	Draw different types of lines						
3.	Draw different geometrical figures						
4.	Draw simple curve						
5.	Create a pattern with simple shapes						
6.	Treat team members with respect						
7.	Maintain positive relationships to achieve common organizational goals						
8.	Receive the instructions from Supervisor						
9.	Report unsafe condition to immediate supervisor (shift position)						
Competent <input type="checkbox"/>				Not Yet Competent <input type="checkbox"/>			

Each Assessment Task (with performance criteria)				
Assessment Task 2		Description of assessment task 2 Draw, label and dimension the following orthographic projection of simple objects given by assessor. <ul style="list-style-type: none"> • First angle view • Third angle view • Missing view • Section view 		
During the practical assessment, candidate demonstrated the following:		Yes	No	Remarks
1.	Draw first angle projection			
2.	Draw third angle projection			
3.	Draw missing views			
4.	Draw different section views			
5.	Draw different types of dimensions.			
6.	Draw geometrical tolerance			
7.	Draw different drawing symbols			
8.	Get work related information from team			
9.	Carry out the instructions of the supervisor			
Competent <input type="checkbox"/>		Not Yet Competent <input type="checkbox"/>		

Written Assessment Guide

For

“Crush Plant Assistant”

Level-2

Perform Basic Technical Drawings



**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: Perform Basic Technical Drawings Follow Safety Rules at Site Perform Basic Communication Skills	Assessment Date (DD/MM/YY): Assessment Time: 30 min		

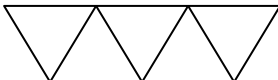


Guidance for Candidate	To complete your assessment for this Competency Standard, you need to answer the questions on the following pages successfully.
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Assessors Guide (to be completed by the Assessor and signed both by the assessor and the candidate 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
Competency Standard Title: Perform Basic Technical Drawings Follow Safety Rules at Site Perform Basic Communication Skills	Assessment Date (DD/MM/YY): Assessment Time: 30 min		

WRITTEN ASSESSMENT

Question	Candidate's answer
1. Enlist three types of dimensions	
2. Enlist the types of linear dimensions	
3. write full form of following abbreviations; a. ASSY b. CM c. CL d. CHAM e. CSK	
a. write full form of following abbreviations; CSK HD b. C'BORE or CBORE c. DIA d. DIM	
4. Define below symbols; 	
5. PPE stands for?	
6. What are the meaning of following shapes and colors? White circle with red outline and red diagonal bar 	
Green rectangle/sqaure means? 	
7. Enlist five Verbal communication techniques?	
8. Model of Communication SMCR is stands for?	

ANSWER KEY

Sr.	Answers
1.	Linear Dimensions. Radial Dimensions. Angular Dimensions. Ordinate Dimensions. Arc Length Dimensions .Baseline and Continued Dimensions.
2.	Horizontal, vertical, aligned
3.	Assembly ,Centimeters ,Center line ,Chamfered ,Countersink
4.	Countersink Head ,Counter bore, Diameter, Dimension, Drawing, Hexagon
5.	Grinding
6.	Personal Protective Equipment
7.	Prohibition
8.	Information about safe condition
9.	Active listening ,Clarity and conciseness ,Confidence, Empathy, Friendliness, Open-mindedness, Giving and soliciting feedback, Confidence, Respectfulness
10	Sender-Message-Channel-Receiver (SMCR)

Assessment Evidence Guide

for

“Crush Plant Assistant”

Level-2

Perform Basic Computer Operations
(Formative 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: Perform Basic Computer Operations Follow Safety Rules at site Perform Basic Communication skills	Assessment Date (DD/MM/YY): Assessment Time :		

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>7. Assessment Task 1: Candidate is required to install MS Office application and prepare a formatted document using MS word, specified by assessor.</p> <p>And complete:</p> <p>8. Knowledge assessment test (Written or Oral)</p> <p>9. Portfolios at the time of assessment (if any)</p>
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: Install drivers and applications according to the software specification</p> <p>Performance Criteria 2: Troubleshoot applications to trace and fix faults in a specific application to bring it in a running condition</p> <p>Performance Criteria 3: Compose a document as per the requirement.</p> <p>Performance Criteria 4: Format Word Document according to given requirements.</p> <p>Performance Criteria 5: Print Word Documents according to requirements.</p> <p>Performance Criteria 6: Identify risk associated with job to be done</p> <p>Performance Criteria 7: Treat team members with respect</p> <p>Performance Criteria 8: Identify interrelated work activities to avoid confusion</p> <p>Performance Criteria 9: Identify problems in communication with a team</p> <p>Performance Criteria 10: Carry out the instructions of the supervisor</p>

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	<p>COMPETENT <input type="checkbox"/> NOT YET COMPETENT <input type="checkbox"/></p> <p>Name of the Assessor: Assessor's code:</p> <p>Signature of the Assessor:.....</p>

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 Install MS Office application and prepare a formatted document using MS word, specified by assessor.				
During the practical assessment, candidate demonstrated the following:					Yes	No	Remarks
1.	Install drivers and applications according to the software specification						
2.	Troubleshoot applications to trace and fix faults in a specific application to bring it in a running condition						
3.	Compose a document as per the requirement.						
4.	Format Word Document according to given requirements.						
5.	Print Word Documents according to requirements.						
6.	Identify risk associated with job to be done						
7.	Treat team members with respect						
8.	Identify interrelated work activities to avoid confusion						
9.	Identify problems in communication with a team						
10.	Carry out the instructions of the supervisor						
Competent <input type="checkbox"/>					Not Yet Competent <input type="checkbox"/>		

Written Assessment Guide
for
“Crush Plant Assistant”
Level-2
Perform Basic Computer Operations



**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: Perform Basic Computer Operations Follow Safety Rules at site Perform Basic Communication skills	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
Competency Standard Title: Perform Basic Computer Operations Follow Safety Rules at site Perform Basic Communication skills	Assessment Date (DD/MM/YY): Assessment Time: 30min		

WRITTEN ASSESSMENT

Question	Candidate's answer
9. Ctrl+Esc	
10. Ctrl+Shift+Esc	
11. Ctrl+X in MS word	
12. Ctrl+V in MS word	
13. Ctrl+A in MS word	
14. Enlist types of hazards	
15. Define hygiene	
16. Enlist four first aid materials	
17. What are the 5 C's of communication?	
18. Write five barriers to communication?	

ANSWER KEY

Sr.	Answers
1.	Opens the Start menu.
2.	Opens Windows Task Manager.
3.	Cut
4.	Paste
5.	Select whole document
6.	Falls, fires, crushing, slips & trips, falling objects, electrical etc.
7.	Hygiene is maintaining good health through cleanliness
8.	Gloves/Eye Protection ,CPR Pocket Mask ,Tourniquet ,Roller Gauze ,4x4 Gauze Pads ,Medical Tape, Two Triangular Bandages, Sam Splint ,Elastic Bandage ,Trauma Shears
9.	Clarity, Consistency, Creativity, Content, Connections
10.	<ul style="list-style-type: none">• The use of jargon. Over-complicated or unfamiliar terms.• Emotional barriers and taboos.• Lack of attention, interest, distractions, or irrelevance to the receiver.• Differences in perception and viewpoint.• Physical disabilities such as hearing problems or speech difficulties.• Language differences and the difficulty in understanding unfamiliar accents.• Cultural differences.

Assessment Evidence Guide
for
“Crush Plant Assistant”
Level-2
Maintain Inventory at Site
(Formative 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: Maintain Inventory at Site Follow Safety Rules at site Perform Basic Communication skills	Assessment Date (DD/MM/YY): Assessment Time :		

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 identify the parts of crushing plant, its capacity and capability of attachments specify by assessor.</p> <p>Assessment Task 2: Candidate is required to identify different tools in tool box and perform corrective maintenance as per requirement given by assessor.</p> <p>Assessment Task 3: Candidate is required to put entry in stock register; generate demand and the report of faulty tools at site store of crushing plant as per requirement given by assessor.</p> <p>And complete:</p> <p>10. Knowledge assessment test (Written or Oral)</p> <p>11. Portfolios at the time of assessment (if any)</p>
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: Identify capacity of plant/machinery as per manufacturers specifications</p> <p>Performance Criteria 2: identify standard tools supplied with machines</p> <p>Performance Criteria 3: Check spares/consumable materials</p> <p>Performance Criteria 4: Adopt communication skills, which are designed in a team.</p> <p>Performance Criteria 5:Identify problems in communication with a team</p> <p>Performance Criteria 6: Use appropriate hand signals as per situation.</p>
	<p>Assessment Task 2:</p> <p>Performance Criteria 1: Check physical condition of tools</p> <p>Performance Criteria 2: Place tools in tool box as per layout</p> <p>Performance Criteria 3: Perform preventive maintenance of tools as per standards</p> <p>Performance Criteria 4: Perform corrective maintenance of tools as per standards</p> <p>Performance Criteria 5: Clean tools after use</p> <p>Performance Criteria 6: Carry out the instructions of the supervisor</p> <p>Performance Criteria 7: Report unsafe condition to immediate supervisor(shift position)</p> <p>Performance Criteria 8: Maintain housekeeping</p> <p>Performance Criteria 9: Receive the instructions from Supervisor</p> <p>Performance Criteria 10: Select PPE according to job</p> <p>Performance Criteria 11: Wear PPE according to job</p> <p>Performance Criteria 12: Store PPE at Designated place after use</p>

	<p>Assessment Task 3:</p> <p>Performance Criteria 1: Identify number of tools and equipment as per record</p> <p>Performance Criteria 2: Report for faulty tools and equipment</p> <p>Performance Criteria 3: Generate demand for defective tools and equipment</p> <p>Performance Criteria 4: Prepare record of all tools and equipment</p> <p>Performance Criteria 5: Identify basic safety signs and symbols</p> <p>Performance Criteria 6: Store PPE at Designated place after use</p> <p>Performance Criteria 7: Identify risk associated with job to be done</p>
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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 Identify the parts of crushing plant, its capacity and capability of attachments specify by assessor.	

During the practical assessment, candidate demonstrated the following:		Yes	No	Remarks
11.	Identify capacity of plant/machinery as per manufacturers specifications			
12.	Identify standard tools supplied with machines			
13.	Check spares/consumable materials			
14.	Adopt communication skills, which are designed in a team.			
15.	Identify problems in communication with a team			
16.	Use appropriate hand signals as per situation.			
Competent <input type="checkbox"/>		Not Yet Competent <input type="checkbox"/>		

Each Assessment Task (with performance criteria)				
Assessment Task 2		Description of assessment task 2 Identify different tools in tool box and perform corrective maintenance as per requirement given by assessor.		
During the practical assessment, candidate demonstrated the following:		Yes	No	Remarks
1.	Check physical condition of tools			
2.	Place tools in tool box as per layout			
3.	Perform preventive maintenance of tools as per standards			
4.	Perform corrective maintenance of tools as per standards			
5.	Clean tools after use			
6.	Carry out the instructions of the supervisor			
7.	Report unsafe condition to immediate supervisor(shift position)			
8.	Maintain housekeeping			
9.	Receive the instructions from Supervisor			
10.	Select PPE according to job			
11.	Wear PPE according to job			
12.	Store PPE at Designated place after use			
Competent <input type="checkbox"/>		Not Yet Competent <input type="checkbox"/>		

Each Assessment Task (with performance criteria)			
Assessment Task 3		Description of assessment task 3 Put entry in stock register; generate demand and the report of faulty tools at site store of crushing plant as per requirement given by assessor.	
During the practical assessment, candidate demonstrated the following:		Yes	No
1.	Identify number of tools and equipment as per record		
2.	Report for faulty tools and equipment		
3.	Generate demand for defective tools and equipment		
4.	Prepare record of all tools and equipment		
5.	Identify basic safety signs and symbols		
6.	Store PPE at Designated place after use		
7.	Identify risk associated with job to be done		
Competent <input type="checkbox"/>		Not Yet Competent <input type="checkbox"/>	

Written Assessment Guide

For

“Crush Plant Assistant”

Level 2

Maintain Inventory at Site



**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: Maintain Inventory at Site Follow Safety Rules at site Perform Basic Communication skills	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
Competency Standard Title: Maintain Inventory at Site Follow Safety Rules at site Perform Basic Communication skills	Assessment Date (DD/MM/YY): Assessment Time: 30 min		

WRITTEN ASSESSMENT

Question	Candidate's answer
1. Enlist two hauling equipments.	
2. Define Hauling machine	
3. Define Capability	
4. Define Capacity.	
5. Enlist two components of jaw crusher.	
6. Enlist three types of Crusher.	
7. Define Crushing Plant	
8. Enlist non –verbal communication techniques	
9. Define the basic concept of communication?	
10. Enlist different types of waste	
11. Enlist two general safety rules	

ANSWER KEY

Sr.	Answers
1.	Bulldozers , Truck mounted Excavators , Crawlers ,Dump trucks , Cranes
2.	Hauling equipment is used to move building/drilling supplies, soil, and other materials.
3.	Machine capability is the measure of the actual quality of a machine with respect to its specifications.
4.	Capacity is the volume of products or services that can be produced by a Machine
5.	Toggle plates, pitman, ply wheel.
6.	Gyratory Crushers, Jaw Crushers, Hammer mills, Horizontal Shaft Impact Crushers, ,Roll Crushers, Cone Crushers, Feeder-Breakers.
7.	A crusher is a machine designed to reduce large rocks into smaller rocks, gravel, sand or rock dust.
8.	Tone of voice ,Body language
9.	The basic concept of communication is the process of sending and receiving messages or transferring information from one part (sender) to another (receiver).
10.	Liquid ,Solid ,Hazardous
11.	<ol style="list-style-type: none"> 1. Your safety is your personal responsibility. 2. Always wear required PPE's at the workplace 3. Always follow the procedures. 4. Never take shortcuts. 5. Clean and organize workplace 6. Ensure a clear and easy route to emergency exits and equipment. 7. Be alert on the job.

Assessment Evidence Guide

For

“Crush Plant Assistant”

Level-2

Perform Bench Works
(Formative 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: Perform Bench Works Follow Safety Rules at Site Perform Basic Communication Skills	Assessment Date (DD/MM/YY): Assessment Time:		

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 perform sawing and filing on work piece according to the drawing assign by assessor.</p> <p>Assessment Task 2: Candidate is required to perform hand drilling, reaming and tapping on work piece according to the drawing assign by assessor.</p> <p>And complete:</p> <p>12. Knowledge assessment test (Written or Oral)</p> <p>13. Portfolios at the time of assessment (if any)</p>
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: Select blade according to the material and set in hacksaw frame</p> <p>Performance Criteria 2: Mark layout of job as per drawing using required 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 given 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: Inspect quality of the component at suitable intervals.</p> <p>Performance Criteria 8: Verify the final job with the given drawing</p> <p>Performance Criteria 9: Identify the safety signs and symbols</p> <p>Performance Criteria 10: Report unsafe condition to immediate supervisor(shift position)</p> <p>Performance Criteria 11: Select PPE according to job</p> <p>Performance Criteria 12: Wear PPE according to job</p> <p>Performance Criteria 13: Report to the supervisor as per organizational SOPs</p> <p>Performance Criteria 14: Clean and maintain all workplace tools and machines as per housekeeping checklists or instructions provided</p>

	<p>Assessment Task 2</p> <p>Performance Criteria 1: Select hand brace and drilling bit according to the job requirement.</p> <p>Performance Criteria 2: Use marking tool and measuring instruments as per job requirement.</p> <p>Performance Criteria 3: Clamp the work piece as per job requirement.</p> <p>Performance Criteria 4: Perform drilling as per standard procedures</p> <p>Performance Criteria 5: Inspect quality of job at suitable intervals.</p> <p>Performance Criteria 6: Perform post drilling operations</p> <p>Performance Criteria 7: Select required reamer according to the job specification</p> <p>Performance Criteria 8: Select required marking tool and mark layout of job as per drawing</p> <p>Performance Criteria 9: Select clamping device and clamp the work piece</p> <p>Performance Criteria 10: Perform reaming as per job specification</p> <p>Performance Criteria 11: Select required tap according to the job specification</p> <p>Performance Criteria 12: Perform drilling to produce hole</p> <p>Performance Criteria 13: Perform tapping as per job specification</p> <p>Performance Criteria 14: Prepare checklist for daily cleanliness of the workplace</p> <p>Performance Criteria 15: Place all tools & material in proper place to ensure safe work</p> <p>Performance Criteria 16: Identify risk associated with job to be done</p> <p>Performance Criteria 17: Check the availability of broad stable base</p> <p>Performance Criteria 18: Store PPE at Designated place after use</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 Perform sawing and filing on work piece according to the drawing assign by assessor.		
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 required marking tool			
3.	Perform clamping of the work piece according to the instructions			
4.	Perform sawing according to the given instructions			
5.	Select required file type according to the material			
6.	Perform filing as per standard procedures			
7.	Inspect quality of the component at suitable intervals.			
8.	Verify the final job with the given drawing			
9.	Identify the safety signs and symbols			
10.	Report unsafe condition to immediate supervisor(shift position)			
11.	Select PPE according to job			
12.	Wear PPE according to job			
13.	Report to the supervisor as per organizational SOPs			
14.	Clean and maintain all workplace tools and machines as per housekeeping checklists or instructions provided			
Competent <input type="checkbox"/>		Not Yet Competent <input type="checkbox"/>		

Assessment Task 2		Description of Assessment task 2		
		Perform drilling, reaming, tapping on work piece according to the drawing assign by assessor.		
During the practical assessment, candidate demonstrated the following:		Yes	No	Remarks
1.	Select hand brace and drilling bit according to the job requirement.			
2.	Use marking tool and measuring instruments as per job requirement.			
3.	Clamp the work piece as per job requirement.			
4.	Perform drilling as per standard procedures			
5.	Inspect quality of job at suitable intervals.			
6.	Perform post drilling operations			
7.	Select required reamer according to the job specification			
8.	Select required marking tool and mark layout of job as per drawing			
9.	Select clamping device and clamp the work piece			
10.	Perform reaming as per job specification			
11.	Select required tap according to the job specification			
12.	Perform drilling to produce hole			
13.	Perform tapping as per job specification			
14.	Prepare checklist for daily cleanliness of the workplace			
15.	Place all tools & material in proper place to ensure safe work			
16.	Identify risk associated with job to be done			
17.	Check the availability of broad stable base			
18.	Store PPE at Designated place after use			
Competent <input type="checkbox"/>		Not Yet Competent <input type="checkbox"/>		

Assessment Task 3		Description of assessment task 3 Perform hand grinding on work piece according to the drawing assign by assessor.		
During the practical assessment, candidate demonstrated the following:		Yes	No	Remarks
1.	Select appropriate hand grinder & grinding wheel / disk as per job specifications			
2.	Mount the grinding wheel / disk as per standard procedure			
3.	Perform grinding as per standard procedures			
4.	Place all the tools & material in proper place to ensure safe work			
5.	Store PPEs at appropriate place after use			
6.	Identify different type of waste bin			
7.	Clean the bits and pieces of waste material from site			
8.	Store the waste materials according to standards			
Competent <input type="checkbox"/>		Not Yet Competent <input type="checkbox"/>		

Written Assessment Guide

For

“Crush Plant Assistant”

Level 2

Perform Bench Works



**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: Perform Bench Works Follow Safety Rules at Site Perform Basic Communication Skills	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
Competency Standard Title: Perform Bench Works Follow Safety Rules at Site Perform Basic Communication Skills	Assessment Date (DD/MM/YY): Assessment Time: 30 min		

WRITTEN ASSESSMENT

Question	Candidate's answer
19. Define least count.	
20. State four types of hand file according to cut.	
21. Enlist types of files according to shape.	
22. Which angle can be measured with tri square.	
23. Enlist four main parts of a drill machine.	
24. Enlist five layout tools.	
25. Define angle of a drill bit tip .	
26. Classify hacksaw blades.	
27. Enlist two general safety rules.	
28. Write the communication skills.	
29. How to maintain safety at the workplace?	

ANSWER KEY

Sr.	Answers
1.	Least count is an instrument to measure smallest division.
2.	Rough , Smooth, Dead smooth ,straight teeth, curved teeth etc
3.	Square, Flat, half round ,round, Triangular, Knife edge etc.
4.	90 and 45 angle
5.	Bore, Column, Table ,Head, Spindle, Speed change mechanism
6.	Scriber ,Tri square ,Combination set Mallet ,Compass ,Center punch ,Prick punch
7.	180 angle
8.	Hack saw blades are classified according to no. of teeth per inch or pitch of teeth
9.	<div>8. Your safety is your personal responsibility.</div> <div>9. Always wear required PPE's at the workplace</div> <div>10. Always follow the procedures.</div> <div>11. Never take shortcuts.</div> <div>12. Clean and organize workplace</div> <div>13. Ensure a clear and easy route to emergency exits and equipment</div> <div>14. .Be alert on the job.</div>
10.	Reading , Writing ,Speaking ,Listening
11.	Understand the risks. Reduce workplace stress. Take regular breaks. Avoid stooping or twisting. Use mechanical aids whenever possible. Follow ergonomic principles. Wear PPE's according to the activity.

Assessment Evidence Guide

for

“Crush Plant Assistant”

Level-2

Perform Basic Routine Maintenance

of Plant

(Formative 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: Perform Basic Routine Maintenance of Plant Follow Safety Rules at site Perform Basic Communication skills	Assessment Date (DD/MM/YY): Assessment Time :		

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 perform pre-operative checks of crushing plant as per instructions given by assessor.</p> <p>Assessment Task 2: Candidate is required to perform basic service of cooling and air intake system of plant engine as per instructions given by assessor.</p> <p>And complete:</p> <p>14. Knowledge assessment test (Written or Oral)</p> <p>15. Portfolios at the time of assessment (if any)</p>
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 visually</p> <p>Performance Criteria 2: Check the oil level in all gear boxes and hydraulic unit 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: Lubricate moving parts of crusher plant</p> <p>Performance Criteria 6: Check and tightened all bolts and bearing sets</p> <p>Performance Criteria 7: Check and report damage wiring, loose electrical fitting switches and sensor</p> <p>Performance Criteria 8: Check and tightness all hydraulic and pneumatic connection and condition of flexible tube and rubber seals</p> <p>Performance Criteria 9: Inspect and report damage conveyer belt</p> <p>Performance Criteria 10: Select PPE according to job</p> <p>Performance Criteria 11: Wear PPE according to job</p> <p>Performance Criteria 12: Identify different types of communication hand signals.</p> <p>Performance Criteria 13: Use appropriate hand signals as per situation.</p> <p>Performance Criteria 14: Identify the safety signs and symbols</p> <p>Performance Criteria 15: Erect barricades, hoardings, signage in the hazardous areas</p> <p>Performance Criteria 16: Report to the supervisor as per organizational SOPs</p> <p>Carry out the instructions of the supervisor</p>

	<p>Assessment Task 2:</p> <p>Performance Criteria 1: Identify low oil levels</p> <p>Performance Criteria 2: Top up oil levels</p> <p>Performance Criteria 3: Identify and report leakages</p> <p>Performance Criteria 4: Locate components to be inspected</p> <p>Performance Criteria 5: Adjust coolant level</p> <p>Performance Criteria 6: Replace belts and hoses</p> <p>Performance Criteria 7: Check air service indicators</p> <p>Performance Criteria 8: Clean primary air filter</p> <p>Performance Criteria 9: Replace intake hoses and clamps</p> <p>Performance Criteria 10: Check battery terminals</p> <p>Performance Criteria 11: Check water level of batteries</p> <p>Performance Criteria 12: Replace batteries</p> <p>Performance Criteria 13: Report unsafe condition to immediate supervisor(shift position)</p> <p>Performance Criteria 14: Identify risk associated with job to be done</p> <p>Performance Criteria 15: Maintain housekeeping</p> <p>Performance Criteria 16: Maintain positive relationships to achieve common organizational goals</p> <p>Performance Criteria 17: Adopt communication skills, which are designed in a team.</p>
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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		
		Perform pre-operative checks of crushing plant as per instructions given by assessor.		
During the practical assessment, candidate demonstrated the following:		Yes	No	Remarks
17.	Inspect oil, water and filter of compressor and generator visually			
18.	Check the oil level in all gear boxes and hydraulic unit as per the procedures set by the manufacturer			
19.	Check and adjust belts and ropes are tightened and aligned as per machinery manual			
20.	Inspect and clean crusher jaws			
21.	Lubricate moving parts of crusher plant			
22.	Check and tightened all bolts and bearing sets			
23.	Check and report damage wiring, loose electrical fitting switches and sensor			
24.	Check and tightness all hydraulic and pneumatic connection and condition of flexible tube and rubber seals			
25.	Inspect and report damage conveyer belt			
26.	Select PPE according to job			
27.	Wear PPE according to job			
28.	Identify different types of communication hand signals.			
29.	Use appropriate hand signals as per situation.			
30.	Identify the safety signs and symbols			
31.	Erect barricades, hoardings, signage in the hazardous areas			
32.	Report to the supervisor as per organizational SOPs			
33.	Carry out the instructions of the 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		
		Perform basic services of cooling and air intake system of plants engines as per instructions given by assessor.		
During the practical assessment, candidate demonstrated the following:		Yes	No	Remarks
1.	Identify low oil levels			
2.	Top up oil levels			
3.	Identify and report leakages			
4.	Locate components to be inspected			
5.	Adjust coolant level			
6.	Replace belts and hoses			
7.	Check air service indicators			
8.	Clean primary air filter			
9.	Replace intake hoses and clamps			
10.	Check battery terminals			
11.	Check water level of batteries			
12.	Replace batteries			
13.	Report unsafe condition to immediate supervisor(shift position)			
14.	Identify risk associated with job to be done			
15.	Maintain housekeeping			
16.	Maintain positive relationships to achieve common organizational goals			
17.	Adopt communication skills, which are designed in a team.			
Competent <input type="checkbox"/>		Not Yet Competent <input type="checkbox"/>		

Written Assessment Guide

For

“Crush Plant Assistant”

Level 2

**Perform Basic Routine Maintenance
of Plant**



**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: Perform Basic Routine Maintenance of Plant Follow Safety Rules at Site Perform Basic Communication Skills	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
Competency Standard Title: Perform Basic Routine Maintenance of Plant Follow Safety Rules at Site Perform Basic Communication Skills	Assessment Date (DD/MM/YY): Assessment Time: 30 min		

WRITTEN ASSESSMENT

Question	Candidate's answer
1. Define Pre-Operative Check	
2. Define Sensor.	
3. Define Lubrication System.	
4. Enlist two Components of Crusher.	
5. Define Cooling System.	
6. Types of Cooling System of engines.	
7. Define Air intake system.	
8. Define hydraulic system.	
9. Enlist three types of maintenance.	
10. Why maintenance is carried out.	
11. What is hygiene?	
12. Enlist different types of waste bin.	
13. Enlist non-verbal communication techniques.	

ANSWER KEY

Sr.	Answers
1.	Initial check done before operating a machine is known as Pre-Operating Check.
2.	A device which detects or measures a physical property and records, indicates, or otherwise responds to it
3.	Lubrication is the process or technique of using a lubricant to reduce friction and wear and tear
4.	Toggle plates, the pitman, ply wheel.
5.	The type of system which cooling is provided to the hot components specially used in engines.
6.	Air Cooled, Water cooled
7.	An air-intake is an opening through which air enters an engine or system, usually for combustion or cooling.
8.	It is the combination of inter-related and inter-connected hydraulic components to transmit the hydraulic power.
9.	Preventive maintenance ,Periodic Maintenance, Conditional based maintenance, Corrective maintenance
10.	Maintenance on plant and equipment is carried out to prevent problems arising, to put faults right, and to ensure equipment is working effectively.
11.	Hygiene is maintaining good health through cleanliness.
12.	Blue ,Brown, Green & Gray
13.	Tone of voice, Body language