

Instruction Sheet for the Candidate

Qualification	National Vocational Certificate in Metal Forming & Processing Level 5
Competency Standard	Perform Hot & Cold Rolling Process
Purpose of Assessment	Formative Assessment
Candidate Details	Name _____ Registration/Roll Number _____
Guidance for Candidate	<p>To meet this standard, you are required to complete the following within 04 Hrs. time frame (for practical demonstration & assessment):</p> <ul style="list-style-type: none"> • CU1. Perform Two, Three & Four high rolling mill process (Hot rolling) • CU2. Perform Tandem rolling mill process (Cold rolling) • CU3. Carryout inspection of finished product
Time: 04 Hrs.	During a practical assessment, under observation by an assessor, you are required to
Minimum Evidence Required	<p>CU1. Perform Two, Three & Four high rolling mill process (Hot rolling)</p> <ul style="list-style-type: none"> P1. Ensure health safety and environment standards as per requirement P2. Set the temperature of the Re-heating furnace for heating the job to be rolled as per standard operating procedures. P3. Adjust the rollers in Rolling Mill according to job requirements (shape and size) P4. Set the rollers gap according to the job dimensions as per drawing P5. Use lubrication in rolling process to reduce the friction between rolls and metal P6. Pass the job in different high rolling mills gradually to get the final product as per given requirement P7. Use standard hand tools used in rolling process as per requirement <p>CU2. Perform Tandem rolling mill process (Cold rolling)</p> <ul style="list-style-type: none"> P1. Ensure health safety and environment standards as per requirement

	<p>P2. Adjust the rollers in Rolling Mill according to job requirement</p> <p>P3. Set the rollers gap according to the job dimensions as per drawing</p> <p>P4. Use lubrication in rolling process to reduce the friction between rolls and metal</p> <p>P5. Pass the job in tandem rolling mills to get the final product as per given requirement</p> <p>P6. Use standard hand tools used in rolling process as per requirement</p> <p>CU3. Carryout inspection of finished product</p> <p>P1. Inspect rolling defects as per standard operating procedure</p> <p>P2. Use standard tools to rectify the defects in the given product.</p> <p>P3. Check the dimension of the product by using calibrated tools</p> <p>P4. Verify the final product dimensions</p> <p>P5. Generate report as per requirement</p>
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Self-Assessment Checklist

Candidate Name	
Registration No.	
Qualification	National Vocational Certificate in Metal Forming & Processing Level 5
Competency Standard	Perform Hot & Cold Rolling Process
Purpose of Assessment	Formative Assessment
Assessment Task	<ul style="list-style-type: none"> • CU1. Perform Two, Three & Four high rolling mill process (Hot rolling) • CU2. Perform Tandem rolling mill process (Cold rolling) • CU3. Carryout inspection of finished product

I can.....

Performance Criteria	Yes	No
P1. Ensure health safety and environment standards as per requirement	<input type="checkbox"/>	<input type="checkbox"/>
P2. Set the temperature of the Re-heating furnace for heating the job to be rolled as per standard operating procedures.	<input type="checkbox"/>	<input type="checkbox"/>
P3. Adjust the rollers in Rolling Mill according to job requirements (shape and size)	<input type="checkbox"/>	<input type="checkbox"/>
P4. Set the rollers gap according to the job dimensions as per drawing	<input type="checkbox"/>	<input type="checkbox"/>
P5. Use lubrication in rolling process to reduce the friction between rolls and metal	<input type="checkbox"/>	<input type="checkbox"/>
P6. Pass the job in different high rolling mills gradually to get the final product as per given requirement	<input type="checkbox"/>	<input type="checkbox"/>
P7. Use standard hand tools used in rolling process as per requirement	<input type="checkbox"/>	<input type="checkbox"/>
P8. Ensure health safety and environment standards as per requirement	<input type="checkbox"/>	<input type="checkbox"/>
P9. Adjust the rollers in Rolling Mill according to job requirement	<input type="checkbox"/>	<input type="checkbox"/>
P10. Set the rollers gap according to the job dimensions as per drawing	<input type="checkbox"/>	<input type="checkbox"/>
P11. Use lubrication in rolling process to reduce the friction between rolls and metal	<input type="checkbox"/>	<input type="checkbox"/>
P12. Pass the job in tandem rolling mills to get the final product as per given requirement	<input type="checkbox"/>	<input type="checkbox"/>
P13. Use standard hand tools used in rolling process as per requirement	<input type="checkbox"/>	<input type="checkbox"/>
P14. Inspect rolling defects as per standard operating procedure	<input type="checkbox"/>	<input type="checkbox"/>

P15. Use standard tools to rectify the defects in the given product.	<input type="text"/>	<input type="text"/>
P16. Check the dimension of the product by using calibrated tools	<input type="text"/>	<input type="text"/>
P17. Verify the final product dimensions	<input type="text"/>	<input type="text"/>
P18. Generate report as per requirement		

Candidate's Signature_____ Assessor's Signature_____

Date: _____

Assessors Judgment Guide

Qualification	National Vocational Certificate in Metal Forming & Processing Level 5
Competency Standard	Perform Hot & Cold Rolling Process
Purpose of Assessment	Formative Assessment
Candidate Details	Name: _____ Registration/Roll Number: _____ Signature: _____
Assessment Outcome	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

Assessment Task	<ul style="list-style-type: none"> CU1. Perform Two, Three & Four high rolling mill process (Hot rolling) CU2. Perform Tandem rolling mill process (Cold rolling) CU3. Carryout inspection of finished product 		
During the practical assessment, candidate demonstrated the following:	Yes	No	Remarks
1. Ensure health safety and environment standards as per requirement			
2. Set the temperature of the Re-heating furnace for heating the job to be rolled as per standard operating procedures.			
3. Adjust the rollers in Rolling Mill according to job requirements (shape and size)			
4. Set the rollers gap according to the job dimensions as per drawing			
5. Use lubrication in rolling process to reduce the friction between rolls and metal			
6. Pass the job in different high rolling mills gradually to get the final product as per given requirement			
7. Use standard hand tools used in rolling process as per requirement			
8. Ensure health safety and environment standards as per requirement			
9. Adjust the rollers in Rolling Mill according to job requirement			
10. Set the rollers gap according to the job dimensions as per drawing			
11. Use lubrication in rolling process to reduce the friction between rolls and metal			
12. Pass the job in tandem rolling mills to get the final product as per given requirement			
13. Use standard hand tools used in rolling process as per requirement			
14. Inspect rolling defects as per standard operating procedure			
15. Use standard tools to rectify the defects in the given product.			
16. Check the dimension of the product by using calibrated tools			
17. Verify the final product dimensions			
18. Generate report as per requirement			
Competent <input type="checkbox"/>		Not Yet Competent <input type="checkbox"/>	

Knowledge Assessment

Qualification	National Vocational Certificate in Metal Forming & Processing Level 5
Competency Standard	Perform Hot & Cold Rolling Process
Purpose of Assessment	Formative 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: _____

Candidate's response is not required to be identical, but similar concepts and/or keywords must be used. Oral questioning may be used to clarify candidate understanding of topic and its application.

Questions (Candidate confidently answered questions correctly and demonstrated understanding of the topics and their application)		Satisfactory	Not Satisfactory
1.	Explain types of rolling process		
2.	What are the Types of heating furnaces		
3.	Explain types of rolling defects		

4.	What is a Tandem rolling mill setup		
5.	What is a Two-High Rolling Mill setup		
6.	What are the Types of forces exerted during rolling		

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