

## Instruction Sheet for the Candidate

<b>Qualification</b>	Agricultural Machinery helper (Level-2)
<b>Competency Standard</b>	Perform Metal / Bench Work
<b>Purpose of Assessment</b>	Formative Assessment
<b>Candidate Details</b>	Name_____ Registration/Roll Number_____
<b>Guidance for Candidate</b>	<p><b>To meet this standard, you are required to complete the following within 03 Hrs. time frame (for practical demonstration &amp; assessment):</b></p> <ol style="list-style-type: none"> <li>1. Develop Name Plate manually</li> <li>2. Prepare Dovetail Joint</li> <li>3. Cut Threads on Work Piece with tap and die</li> <li>4. Cut Pipe Threads</li> <li>5. Prepare spanner (small size)</li> <li>6. Prepare Funnel</li> </ol>
<b>Time: 03 Hrs.</b>	During a practical assessment, under observation by an assessor, you are required to
<b>Minimum Evidence Required</b>	<p><b>1. Develop Name Plate manually</b></p> <ol style="list-style-type: none"> <li>1. Select marking tools</li> <li>2. Hold sheet in vice.</li> <li>3. Cut sheet as per given drawing</li> <li>4. Perform surface finishing with file</li> <li>5. Level surface with tri-square</li> <li>6. Mark plate as per name requirements</li> <li>7. Punch marked area</li> <li>8. Perform finishing with sand paper</li> </ol> <p><b>2. Prepare Dovetail Joint</b></p> <ol style="list-style-type: none"> <li>1. Select marking tools</li> <li>2. Cut sheet as per drawing</li> <li>3. Perform surface finishing with file</li> <li>4. Level surface of both work pieces with tri-square</li> <li>5. Mark both work pieces according to drawing</li> <li>6. Create outer notch on work piece using flat file and hacksaw</li> <li>7. Create inner notch using hacksaw and chisel</li> <li>8. Compare both pieces by inserting outer notch into inner notch</li> <li>9. Perform finishing with sand paper</li> </ol> <p><b>3. Cut Threads on Work Piece with tap and die</b></p> <ol style="list-style-type: none"> <li>1. Identify different kind of taps &amp; die according to requirement</li> </ol>

	<ol style="list-style-type: none"> <li>Identify work piece clamping method.</li> <li>Apply tap and die alignment.</li> <li>Apply lubricants while threading.</li> <li>Avoid unwanted engraving and slips.</li> <li>Identify proper threading procedure</li> </ol> <p><b>4.Cut Pipe Threads</b></p> <ol style="list-style-type: none"> <li>Select marking tools</li> <li>Cut pipe as per drawing</li> <li>Select die as per pipe size</li> <li>Set die into die holder</li> <li>Select relevant vice for pipe clamping</li> <li>Perform pipe threading using appropriate method</li> <li>Perform finishing with sand paper</li> </ol> <p><b>5.Prepare spanner (small size)</b></p> <ol style="list-style-type: none"> <li>Select marking tools</li> <li>Cut sheet as per drawing</li> <li>Perform surface finishing with file</li> <li>Level surface with tri-square</li> <li>Mark radius as per drawing</li> <li>Develop radius as per drawing</li> <li>Make notch with round file</li> <li>Perform finishing with sand paper</li> </ol> <p><b>6 Prepare Funnel</b></p> <ol style="list-style-type: none"> <li>Select marking tools</li> <li>Cut sheet as per drawing</li> <li>Perform surface finishing with file</li> <li>Mark sheet according to drawing</li> <li>Cut sheet with hand shear</li> <li>Create radius of funnel using appropriate tools</li> <li>Perform flat lock seam bend using bench vice</li> <li>Perform finishing with sand paper.</li> </ol>
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## Self-Assessment Checklist

<b>Candidate Name</b>	
<b>Registration No.</b>	
<b>Qualification</b>	Agricultural Machinery helper (Level-2)
<b>Competency Standard</b>	Perform Metal / Bench Work
<b>Purpose of Assessment</b>	Formative Assessment
<b>Assessment Task</b>	<ol style="list-style-type: none"> <li>1. Develop Name Plate manually</li> <li>2. Prepare Dovetail Joint</li> <li>3. Cut Threads on Work Piece with tap and die</li> <li>4. Cut Pipe Threads</li> <li>5. Prepare spanner (small size)</li> <li>6. Prepare Funnel</li> </ol>

I can.....

<b>Performance Criteria</b>	<b>Yes</b>	<b>No</b>
1. Select marking tools	<input type="checkbox"/>	<input type="checkbox"/>
2. Hold sheet in vice.	<input type="checkbox"/>	<input type="checkbox"/>
3. Cut sheet as per given drawing	<input type="checkbox"/>	<input type="checkbox"/>
4. Perform surface finishing with file	<input type="checkbox"/>	<input type="checkbox"/>
5. Select marking tools	<input type="checkbox"/>	<input type="checkbox"/>
6. Cut sheet as per drawing	<input type="checkbox"/>	<input type="checkbox"/>
7. Perform surface finishing with file	<input type="checkbox"/>	<input type="checkbox"/>
8. Level surface of both work pieces with tri-square	<input type="checkbox"/>	<input type="checkbox"/>
9. Mark both work pieces according to drawing	<input type="checkbox"/>	<input type="checkbox"/>
10. Create outer notch on work piece using flat file and hacksaw	<input type="checkbox"/>	<input type="checkbox"/>
11. Create inner notch using hacksaw and chisel	<input type="checkbox"/>	<input type="checkbox"/>
12. Compare both pieces by inserting outer notch into inner notch	<input type="checkbox"/>	<input type="checkbox"/>
13. Perform finishing with sand paper	<input type="checkbox"/>	<input type="checkbox"/>

14. Identify different kind of taps & die according to requirement		
15. Identify work piece clamping method.		
16. Apply tap and die alignment.		
17. Apply lubricants while threading.		
18. Avoid unwanted engraving and slips.		
19. Identify proper threading procedure		
19. Select marking tools		
20. Cut pipe as per drawing		
21. Select die as per pipe size		

Candidate's Signature\_\_\_\_\_ Assessor's Signature\_\_\_\_\_

Date: \_\_\_\_\_

## Assessors Judgment Guide

<b>Qualification</b>	Agricultural Machinery helper (Level-2)
<b>Competency Standard</b>	Perform Metal / Bench Work
<b>Purpose of Assessment</b>	Formative Assessment
<b>Candidate Details</b>	Name: _____ Registration/Roll Number: _____ Signature: _____
<b>Assessment Outcome</b>	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

<b>Assessment Task</b>		1. Develop Name Plate manually 2. Prepare Dovetail Joint 3. Cut Threads on Work Piece with tap and die 4. Cut Pipe Threads 5. Prepare spanner (small size) 6. Prepare Funnel		
<b>During the practical assessment, candidate demonstrated the following:</b>		<b>Yes</b>	<b>No</b>	<b>Remarks</b>
1.	Select marking tools			
2.	Hold sheet in vice.			
3.	Cut sheet as per given drawing			
4.	Perform surface finishing with file			
5.	Select marking tools			
6.	Cut sheet as per drawing			
7.	Perform surface finishing with file			
8.	Level surface of both work pieces with tri-square			
9.	Mark both work pieces according to drawing			
10.	Create outer notch on work piece using flat file and hacksaw			
11.	Create inner notch using hacksaw and chisel			
12.	Compare both pieces by inserting outer notch into inner notch			
13.	Perform finishing with sand paper			
14.	Identify different kind of taps & die according to requirement			
15.	Identify work piece clamping method.			
16.	Apply tap and die alignment.			

17.	Apply lubricants while threading.			
18.	Avoid unwanted engraving and slips.			
19.	19. Identify proper threading procedure			
20.	Select marking tools			
21.	Cut pipe as per drawing			
Competent <input type="checkbox"/>		Not Yet Competent <input type="checkbox"/>		

## Knowledge Assessment

<b>Qualification</b>	Agricultural Machinery helper (Level-2)
<b>Competency Standard</b>	Perform Metal / Bench Work
<b>Purpose of Assessment</b>	Formative Assessment
<b>Candidate Details</b>	Name: _____ Registration/Roll Number: _____ Candidate Signature: _____
<b>Assessment Outcome</b>	<div style="display: flex; justify-content: space-between; align-items: center;"> <span><b>COMPETENT</b> <input type="checkbox"/></span> <span><b>NOT YET COMPETENT</b> <input type="checkbox"/></span> </div> 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.

<b>Questions</b> (Candidate confidently answered questions correctly and demonstrated understanding of the topics and their application)		<b>Satisfactory</b>	<b>Not Satisfactory</b>
1.	What is chipping ?		
2.	How you can mark and cut an arc on sheet metal?		
3.	Which Tap and drill you will use to make 6mm threaded hole in 3mm Gauge MS sheet		
	Hand shear can cut up to what size / gauge of MS sheet.		

<b>Feedback to the Candidate</b>



<b>Candidate's Signature</b> _____ <b>Assessor's Signature</b> _____