

Instruction Sheet for the Candidate

Qualification	Agricultural Machinery helper (Level-2)
Competency Standard	Perform precision measurements on various components
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 03 Hrs. time frame (for practical demonstration & assessment):</p> <ul style="list-style-type: none"> • Perform measurement of given job with Vernier caliper • Perform measurement of given job with Micrometer • Perform operation of Dial gauge • Perform measurement with feeler gauge • Perform measurement with Pitch gauge • Measure torque with torque wrench
Time: 03 Hrs.	During a practical assessment, under observation by an assessor, you are required to
Minimum Evidence Required	<p>Perform measurement of given job with Vernier caliper</p> <ol style="list-style-type: none"> 1. Select the appropriate Vernier caliper for given measurement 2. Enlist the measuring units in FPS & MKS & SI 3. Measure the job in inches 4. Measure the job in millimeter 5. Store the Vernier caliper as per standard procedure Mark the Arc with Divider <p>Perform measurement of given job with Micrometer</p> <ol style="list-style-type: none"> 1. Select the appropriate micrometer for given measurement 2. Measure the job in inches 3. Measure the job in millimeter 4. Store the micrometer as per standard procedure <p>Perform operation of Dial gauge</p> <ol style="list-style-type: none"> 1. Select the appropriate dial gauge for given measurement 2. Measure the backlash given job 3. Measure the end play given job 4. Store the Dial gauge as per standard procedure <p>Perform measurement with feeler gauge</p>

	<ol style="list-style-type: none"> 2 1.Select the appropriate feeler gauge for given measurement 3 2.Measure the spark plug gap in inches 4 3.Measure the spark plug gap in millimeter 5 4.Store the dial gauge as per standard procedure <p>Perform measurement with Pitch gauge</p> <ol style="list-style-type: none"> 1. Select the appropriate pitch gauge for given measurement 2. Measure the pitch of thread in inches 3. Measure the pitch of thread in millimeter 4. Store the pitch gauge as per standard procedure <p>Measure torque with torque wrench</p> <ol style="list-style-type: none"> 1. Select the appropriate torque wrench according to job 2 .Tight the nut and bolt at recommended torque with click type torque wrench 3 Tight the nut and bolt at recommended torque with beam type torque wrench 4 Tight the nut and bolt recommended torque with dial type torque wrench
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Self-Assessment Checklist

Candidate Name	
Registration No.	
Qualification	Agricultural Machinery helper (Level-2)
Competency Standard	Perform precision measurements on various components
Purpose of Assessment	Formative Assessment
Assessment Task	<ul style="list-style-type: none"> Perform measurement of given job with Vernier caliper Perform measurement of given job with Micrometer Perform operation of Dial gauge Perform measurement with feeler gauge Perform measurement with Pitch gauge Measure torque with torque wrench

I can.....

Performance Criteria	Yes	No
1 Select the appropriate Vernier caliper for given measurement		<input type="checkbox"/>
2 .Enlist the measuring units in FPS & MKS & SI		<input type="checkbox"/>
3 .Measure the job in inches		<input type="checkbox"/>
4 .Measure the job in millimeter		<input type="checkbox"/>
5 Store the Vernier caliper as per standard procedure		<input type="checkbox"/>
6 Select the appropriate micrometer for given measurement	<input type="checkbox"/>	<input type="checkbox"/>
7 Measure the job in inches	<input type="checkbox"/>	<input type="checkbox"/>
8 Measure the job in millimeter	<input type="checkbox"/>	<input type="checkbox"/>
9 Store the micrometer as per standard procedure	<input type="checkbox"/>	<input type="checkbox"/>
10 Select the appropriate dial gauge for given measurement	<input type="checkbox"/>	<input type="checkbox"/>
11 .Measure the backlash given job		

12 .Measure the end play given job	<input type="checkbox"/>	<input type="checkbox"/>
13 .Store the Dial gauge as per standard procedure		
14 Select the appropriate feeler gauge for given measurement		
15 Measure the spark plug gap in inches		
16 Measure the spark plug gap in millimeter		
17 Store the dial gauge as per standard procedure		
18 Select the appropriate pitch gauge for given measurement		
19 Measure the pitch of thread in inches		
20 Measure the pitch of thread in millimeter		
21 .Store the pitch gauge as per standard procedure		
22 Select the appropriate torque wrench according to job		
23 Tight the nut and bolt at recommended torque with click type torque wrench		
24 Tight the nut and bolt at recommended torque with beam type torque wrench		
25 Tight the nut and bolt recommended torque with dial type torque wrench		
26 Store the torque wrench as per standard procedure		

Candidate's Signature_____ Assessor's Signature_____

Date: _____

Assessors Judgment Guide

Qualification	Agricultural Machinery helper (Level-2)
Competency Standard	Perform precision measurements on various components
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"> • Perform measurement of given job with Vernier caliper • Perform measurement of given job with Micrometer • Perform operation of Dial gauge • Perform measurement with feeler gauge • Perform measurement with Pitch gauge • Measure torque with torque wrench 		
During the practical assessment, candidate demonstrated the following:		Yes	No	Remarks
1.	Select the appropriate Vernier caliper for given measurement			
2.	.Enlist the measuring units in FPS & MKS & SI			
3.	.Measure the job in inches			
4.	.Measure the job in millimeter			
5.	Store the Vernier caliper as per standard procedure			
6.	Select the appropriate micrometer for given measurement			
7.	Measure the job in inches			
8.	Measure the job in millimeter			
9.	Store the micrometer as per standard procedure			
10.	Select the appropriate dial gauge for given measurement			
11.	.Measure the backlash given job			
12.	.Measure the end play given job			
13.	.Store the Dial gauge as per standard procedure			
14.	Select the appropriate feeler gauge for given measurement			
15.	Measure the spark plug gap in inches			
16.	Measure the spark plug gap in millimeter			

17.	Store the dial gauge as per standard procedure			
18.	Select the appropriate pitch gauge for given measurement			
19.	Measure the pitch of thread in inches			
20.	Measure the pitch of thread in millimeter			
21.	.Store the pitch gauge as per standard procedure			
22.	Select the appropriate torque wrench according to job			
23.	Tight the nut and bolt at recommended torque with click type torque wrench			
24.	Tight the nut and bolt at recommended torque with beam type torque wrench			
25.	Tight the nut and bolt recommended torque with dial type torque wrench			
26.	Store the torque wrench as per standard procedure			
Competent <input type="checkbox"/>		Not Yet Competent <input type="checkbox"/>		

Knowledge Assessment

Qualification	Agricultural Machinery helper (Level-2)
Competency Standard	Perform precision measurements on various components

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.	Least count in a mm type vernier caliper		
2.	Least count in a torque wrenches		
3.	Least count in a inch type micrometer		

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