

Instruction Sheet for the Candidate

Qualification	Agricultural Machinery Technician (AMT) Level-4
Competency Standard	Maintain Brake system
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"> • Rebuild/ replace brake master cylinder of vehicle • Replace wheel cylinders of vehicle • Bleed the brake • Service parking brake system of vehicle • Service the brake
Time: 03 Hrs.	During a practical assessment, under observation by an assessor, you are required to
Minimum Evidence Required	<p>Rebuild/ replace brake master cylinder of vehicle</p> <ol style="list-style-type: none"> 1. Release the Brake fluid 2. Remove the brake paddle 3. Remove the brake Pipes 4. Remove the nuts & bolts of Master cylinder 5. Remove the master cylinder 6. Clean the surface with scraper 7. Insert the seal on Cylinder 8. Install the Master cylinder <p>Replace wheel cylinders of vehicle</p> <ol style="list-style-type: none"> 1. Release and restore the brake fluid 2. Remove the pipe and nuts/bolts from cylinder 3. Remove the Wheel Cylinder 4. Replace the seals of wheel cylinder

	<ol style="list-style-type: none"> 5. Install the both male & female cylinder as per service manual <p>Bleed the brake</p> <ol style="list-style-type: none"> 1. Place the Prime Mover on plain surface 2. Operate the brake paddle 3. Open the brake nipple 4. Bleed the brake 5. Tight the brake nipple 6. Top up the brake fluid <p>Service parking brake system of vehicle</p> <ol style="list-style-type: none"> 1. Jack up the wheels 2. Tight the brake adjuster up-to wheel locking 3. Unscrew the adjuster <p>Service the brake</p> <ol style="list-style-type: none"> 1. Park the Prime Mover on level surface 2. Remove the brake shoe 3. Service the Brake shoe 4. Adjust the brake shoe 5. Install the brake shoe 6. Conduct road test of vehicle to verify repair
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Self-Assessment Checklist

Candidate Name	
Registration No.	
Qualification	Agricultural Machinery Technician (AMT) Level-4
Competency Standard	Maintain Brake system
Purpose of Assessment	Formative Assessment
Assessment Task	<ul style="list-style-type: none"> Rebuild/ replace brake master cylinder of vehicle Replace wheel cylinders of vehicle Bleed the brake Service parking brake system of vehicle Service the brake

I can.....

Performance Criteria	Yes	No
1. Release the Brake fluid	<input type="checkbox"/>	<input type="checkbox"/>
2. Remove the brake paddle	<input type="checkbox"/>	<input type="checkbox"/>
3. Remove the brake Pipes	<input type="checkbox"/>	<input type="checkbox"/>
4. Remove the nuts & bolts of Master cylinder	<input type="checkbox"/>	<input type="checkbox"/>
5. Remove the master cylinder	<input type="checkbox"/>	<input type="checkbox"/>
6. Clean the surface with scraper	<input type="checkbox"/>	<input type="checkbox"/>

7. Insert the seal on Cylinder	<input type="checkbox"/>	<input type="checkbox"/>
8. Install the Master cylinder	<input type="checkbox"/>	<input type="checkbox"/>
9. Release and restore the brake fluid	<input type="checkbox"/>	<input type="checkbox"/>
10. Remove the pipe and nuts/bolts from cylinder	<input type="checkbox"/>	<input type="checkbox"/>
11. Remove the Wheel Cylinder	<input type="checkbox"/>	<input type="checkbox"/>
12. Replace the seals of wheel cylinder	<input type="checkbox"/>	<input type="checkbox"/>
13. Install the both male & female cylinder as per service manual	<input type="checkbox"/>	<input type="checkbox"/>
14. Place the Prime Mover on plain surface	<input type="checkbox"/>	<input type="checkbox"/>
15. Operate the brake paddle	<input type="checkbox"/>	<input type="checkbox"/>
16. Open the brake nipple	<input type="checkbox"/>	<input type="checkbox"/>
17. Bleed the brake	<input type="checkbox"/>	<input type="checkbox"/>
18. Tight the brake nipple	<input type="checkbox"/>	<input type="checkbox"/>
19. Top up the brake fluid	<input type="checkbox"/>	<input type="checkbox"/>
20. Jack up the wheels	<input type="checkbox"/>	<input type="checkbox"/>
21. Tight the brake adjuster up-to wheel locking	<input type="checkbox"/>	<input type="checkbox"/>
22. Unscrew the adjuster	<input type="checkbox"/>	<input type="checkbox"/>
23. Park the Prime Mover on level surface	<input type="checkbox"/>	<input type="checkbox"/>
24. Remove the brake shoe	<input type="checkbox"/>	<input type="checkbox"/>
25. Service the Brake shoe	<input type="checkbox"/>	<input type="checkbox"/>
26. Adjust the brake shoe	<input type="checkbox"/>	<input type="checkbox"/>
27. Install the brake shoe	<input type="checkbox"/>	<input type="checkbox"/>
28. Conduct road test of vehicle to verify repair	<input type="checkbox"/>	<input type="checkbox"/>

Candidate's Signature_____ Assessor's Signature_____

Date: _____

Assessors Judgment Guide

Qualification	Agricultural Machinery Technician (AMT) Level-4
Competency Standard	Maintain Brake system
Purpose of Assessment	Formative Assessment
Candidate Details	Name: _____ Registration/Roll Number: _____ Signature: _____
Assessment Outcome	<div style="display: flex; justify-content: space-between; align-items: center;"> COMPETENT <input type="checkbox"/> NOT YET COMPETENT <input type="checkbox"/> </div> 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">• Rebuild/ replace brake master cylinder of vehicle• Replace wheel cylinders of vehicle• Bleed the brake• Service parking brake system of vehicle• Service the brake		
During the practical assessment, candidate demonstrated the following:		Yes	No	Remarks
1.	Release the Brake fluid			
2.	Remove the brake paddle			
3.	Remove the brake Pipes			
4.	Remove the nuts & bolts of Master cylinder			
5.	Remove the master cylinder			
6.	Clean the surface with scraper			
7.	Insert the seal on Cylinder			
8.	Install the Master cylinder			
9.	Release and restore the brake fluid			
10.	Remove the pipe and nuts/bolts from cylinder			
11.	Remove the Wheel Cylinder			
12.	Replace the seals of wheel cylinder			
13.	Install the both male & female cylinder as per service manual			
14.	Place the Prime Mover on plain surface			
15.	Operate the brake paddle			
16.	Open the brake nipple			
17.	Bleed the brake			

18.	Tight the brake nipple			
19.	Top up the brake fluid			
20.	Jack up the wheels			
21.	Tight the brake adjuster up-to wheel locking			
22.	Unscrew the adjuster			
23.	Park the Prime Mover on level surface			
24.	Remove the brake shoe			
25.	Service the Brake shoe			
26.	Adjust the brake shoe			
27.	Install the brake shoe			
28.	Conduct road test of vehicle to verify repair			
Competent <input type="checkbox"/>		Not Yet Competent <input type="checkbox"/>		

Knowledge Assessment

Qualification	Agricultural Machinery Technician (AMT) Level-4
Competency Standard	Maintain Brake system
Purpose of Assessment	Formative Assessment
Candidate Details	Name: _____ Registration/Roll Number: _____ Candidate Signature: _____
Assessment Outcome	<div style="display: flex; justify-content: space-around; align-items: center;"> COMPETENT <input type="checkbox"/> NOT YET COMPETENT <input type="checkbox"/> </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.

Questions (Candidate confidently answered questions correctly and demonstrated understanding of the topics and their application)		Satisfactory	Not Satisfactory
1.	Name the types of brake		
2.	Which wheel will you bleed first?		
3.	What is the Working principle of hydraulic brake system?		

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