071604T4AUT
AUTOMOTIVE TECHNOLOGY LEVEL 4
ENG/OS/AUT/CR/2/4/A
SERVICE AND REPAIR VEHICLE ENGINE
July/August 2024



TVET CURRICULUM DEVELOPMENT, ASSESSMENT AND CERTIFICATION COUNCIL (TVET CDACC)

OBSERVATION CHECKLIST

INSTRUCTIONS TO ASSESSOR

- 1. Assess the candidate as the practical progresses observing the critical areas
- 2. You are required to mark the practical as the candidate perform the tasks
- 3. You are required to take video clips at critical points
- 4. Ensure the candidate has a name tag and registration code at the back and front

This guide consists of FOUR (4) printed pages.

Assessor should check the guide to ascertain that all the pages are printed as indicated and that no questions or answers are missing

OBSERVATION CHECKLIST						
Candidate's Name & Registration No.						
Assessor's Name & Reg. Code						
Venue of Assessment						
Date of assessment						
(Indicate the marks available and marks obtained resp	ectively. Awa	rd marks approj	priately as guided for			
in the items for evaluation indicated. Give a brief com	ment where n	ecessary)				
	Marks	Marks				
Items to be evaluated:	Allocated	Obtained	Comments			
Cylinder head service						
Wore personal protective gears						
Safety boot	1					
Overall/dustcoat	1					
(Award 1 mark for each safety gear worn correctly)						
2. Disconnected the battery	1					
(Award 1 mark or zero)						
3. Drained coolant from the radiator according to	2					
manufacturer's specification						
(Award 2 marks or zero)						
4. Removed inlet and exhaust manifolds	2					
(Award 2 marks or zero)						
5. Removed the top cover and overhead engine	2					
(Award 2 marks or zero)						
6. Removed the cylinder head bolts in the correct	3					
sequence						
(Award 4 marks or zero)						
7. Removed the cylinder head from the engine	3					
according to manufacturer's specification						
(Award 4 marks or zero)						

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8. Disassembled the valves and cleaned the	4		
components			
(Award 2 marks or zero for each)			
9. Cleaned the cylinder head	2		
(Award 2 marks or zero)			
10. Inspecting			
Cylinder head for crack	1		
Camshaft for wear/cracks	1		
Valve seat wear	1		
 Valves for wear 	1		
(Award 1 mark for each inspection)			
11. Placed cylinder on flat bench and checked for	4		
warpage			
(Award 2 marks or for each)			
12. Ground the valve seats and tested for leakage	4		
(Award 2 marks or 0 for each)			
13. Fitted valves back after cleaning according to	2		
manufacturer's specification			
(Award 2 marks or 0)			
14. Assembled cylinder head, fitted back to the			
engine and step torquing the bolts			
Assembled cylinder head	1		
Fitted back cylinder head and new gasket	2		
Tightened cylinder head bolts	1		
(Award 4 marks as guided)			
15. Fitted back the coolant pipes	2		
(Award 2 marks or 0)			
16. Fitted back top cover	2		
(Award 2 marks or 0)			
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17. Filled the engine with coolant and oil to the		3					
required level according to manufacturer's							
specification							
(Award 3 marks or 0)							
18. Connected the battery		1					
(Award 1 mark or 0)							
19. Finished within specified time frame		2					
(Award 2 marks or 0)							
20. Cleaned the working area and properly dispo	osed	1					
the waste materials							
(Award 1 mark or 0)							
TOTAL		50					
ASSE	ESMENT C	OUTCOME	E	1			
The candidate was found to be:							
Competent Not yet competent							
(Please ti	ick as appro	opriate)					
(The candidate is competent if s/he gets 50% or	r higher)						
Feedback from candidate:							
Feedback to candidate:							
Candidate's signature:	Date:						
Assessor's signature:	Date:						