

071604T4AUT

AUTOMOTIVE MECHANIC LEVEL 4

ENG/OS/AUT/CR/2/4/A

SERVICE AND REPAIR VEHICLE ENGINES

July/Aug 2025



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

PRACTICAL ASSESSMENT

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

OBSERVATION CHECKLIST

Candidate's Name & Registration Code			
Assessors Name & Registration Code			
Venue of Assessment			
Date of Assessment			
Items to be Evaluated: <i>Please award marks as appropriate. Give a brief comment on your observation.</i>	Marks Available	Marks Obtained	Comments
TASK 1: REPLACE A BLOWN CYLINDER HEAD GASKET			
1. Wore Personal Protective Equipment <ul style="list-style-type: none"> • Overall/dust coat • Safety boots <i>(Award 1 Mark each)</i>	1 1		
2. Selected tools, equipment and materials correctly. <i>(Award 2 Marks or zero)</i>	2		
3. Ensured that the vehicle is parked on a flat surface. <i>(Award 2 marks or zero)</i>	2		
4. Prepared the working area and chocked the wheels correctly. <i>(Award 2 Marks zero)</i>	2		
5. Disconnected the battery terminal, electrical components and accessories. <i>(Award 2 Marks or zero)</i>	2		
6. Drained the coolant into a clean container <i>(Award 2 Marks or zero)</i>	2		
7. Removed components correctly <ul style="list-style-type: none"> • Top cover • Timing belt/chain <i>(Award 2 Marks each or zero)</i>	2 2		

8. Untightened the cylinder head bolts following torque sequence. <i>(Award 3 Marks or zero)</i>	3		
9. Inspected gasket for failure; <ul style="list-style-type: none"> • Burn marks • Corrosion <i>(Award 1 Mark each or zero)</i>	1 1		
10. Cleaned the cylinder block and cylinder head surfaces <i>(Award 2 Marks or zero)</i>	2		
11. Checked head for warpage. <i>(Award 2 Marks each)</i>	2		
12. Placed new gasket and reinstalled the cylinder head. <i>(Award 2 Marks or zero)</i>	2		
13. Tightened the cylinder head bolts in correct sequence. <i>(Award 3 Marks or zero)</i>	3		
14. Refilled fluids and tested for leaks. <i>(Award 2 Marks or zero)</i>	2		
Sub-Total 1	32		
TASK 2: INSPECT AND REPLACE A FAULTY CAMSHAFT			
15. Removed camshaft caps <i>Award 2 Marks or zero)</i>	2		
16. Marked and removed camshaft bearings. <i>(Award 2 Marks or zero)</i>	2		
17. Removed the camshaft <i>(Award 2 Marks or zero)</i>	2		
18. Inspected and measured the camshaft lobes and journals: <ul style="list-style-type: none"> • Measured lobe lift 	2 2		

<ul style="list-style-type: none"> Journal diameter with a micrometer. Checked for scoring <p><i>(Award 2 Marks each)</i></p>	2		
<p>19. Installed the new camshaft:</p> <ul style="list-style-type: none"> Applied lubricant to journals. Fitted the camshaft Tightened caps in the correct sequence to specifications. <p><i>(Award 2 Marks each)</i></p>	2 2 2		
<p>20. Reinstalled timing components:</p> <ul style="list-style-type: none"> Re-aligned timing marks Re-fitted the belt/chain. <p><i>(Award 2 Marks each or zero)</i></p>	2 2		
<p>21. Reinstalled the top cover</p> <p><i>(Award 2 Marks each)</i></p>	2		
<p>22. Started the engine and observed for</p> <ul style="list-style-type: none"> Proper valve operation. Leakages Noise <p><i>(Award 2 Mark each or zero)</i></p>	2 2 2		
<p>23. Performed housekeeping.</p> <p><i>(Award 1 Mark or zero)</i></p>	1		
<p>24. Completed within the time limit.</p> <p><i>(Award 1Mark or zero)</i></p>	1		
Sub-Total 2	32		
GRAND TOTAL	64		
ASSESSMENT OUTCOME			

The candidate was found to be:

Competent Not yet Competent

(Please tick as appropriate)

(The candidate is competent if the candidate obtains at least 50%)

Feedback from the Candidate:

Feedback to the Candidate:

Candidate Signature

Date:

Assessor's Signature

Date
