

071604T4AUT

AUTOMOTIVE TECHNOLOGY LEVEL 4

ENG/OS/AUT/CC/5/4/A

Maintain Workshop Tools, Equipment and Measuring Devices

Mar/Apr 2025



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

**WRITTEN ASSESSMENT
Time: 2 HOURS**

INSTRUCTIONS TO CANDIDATE

1. This paper consists of two sections; **A** and **B**
2. Attempt **ALL** questions in both sections.
3. Marks for each question are as indicated in the brackets
4. You are provided with a separate answer booklet to answer the questions
5. Do not write in this question paper

This paper consists of FIVE (5) printed pages

**Candidates should check the question paper to ascertain that all pages
are printed as indicated and that no questions are missing**

SECTION A (10 MARKS)

Attempt all questions in this section. Each question carries one mark

1. Identify the hammer shown in figure1.



Figure 1

- A. Cross pein hammer
 - B. Side pein hammer
 - C. Ball pein hammer
 - D. Straight pein hammer
2. Parallel blocks are used for _____
- A. Setting work piece horizontal
 - B. Cutting parallel keys
 - C. Levelling machine tools
 - D. Marking parallel lines along
3. A _____ is a tool used for holding an object for various tasks like bending, sawing, filing, threading, chipping etc.
- A. Scraper
 - B. Hacksaw
 - C. Vice
 - D. Tinsnips
4. Name a tool used for twisting, pulling and griping small objects.
- A. Spanner
 - B. Pliers
 - C. File
 - D. Micrometer

5. Measuring tools like micrometer should be recalibrated _____
- A. Once every few months
 - B. Only when they appear dirty
 - C. After every use
 - D. Whenever their accuracy is questioned
6. Outline the main purpose of maintaining workshop tools, equipment and measuring devices.
- A. To reduce the cost of material
 - B. To extend the lifespan and ensure safety
 - C. To increase the weight of tools
 - D. To increase the number of tools
7. Identify a workshop tool which should be regularly sharpened to maintain its performance.
- A. Hacksaw
 - B. Plier
 - C. Chisel
 - D. Screwdriver
8. Why is it important to frequently lubricate workshop tools?
- A. To make them look shiny
 - B. To reduce friction and prevent rust
 - C. To increase their weight
 - D. To make them look new
9. What is the function of the tool shown in figure 2?



Figure 2

- A. It is used for removing high spots from flat surfaces only.
- B. It is used for removing high spots from curved surfaces.
- C. It is used to scrape babbitt metal bearings.
- D. It is used to clean carbon from cylinder heads, pistons and other metal surfaces

10. Which is the recommended way of cleaning a tape measure after use?
- A. Submerge it in water.
 - B. Use a dry cloth to wipe off dirt
 - C. Use a chemical cleaner.
 - D. Wash it under running water.

SECTION B (40 MARKS)

Attempt ALL questions in this section.

11. State THREE maintenance practices carried out on a wheel balancing machine. (3 Marks)
12. Identify FOUR importance of maintaining automotive workshop tools and equipment. (4 Marks)
13. As an Automotive technician working in a garage, list FOUR things that you may do to ensure accuracy of measuring tools. (4 Marks)
14. Give FOUR ways you may use to maintain automotive lifts and hoists. (4 Marks)
15. Name FOUR safety precautions observed when using portable power tools. (4 Marks)
16. Explain TWO ways in which workshop tools should be stored to prevent damage and maintain organization. (4 Marks)
17. Identify FOUR basic maintenance practices for hand tools in an automotive workshop. (4 Marks)
18. State FOUR roles of preventative maintenance schedule in an automotive workshop. (4 Marks)
19. Figure 3 shows an external

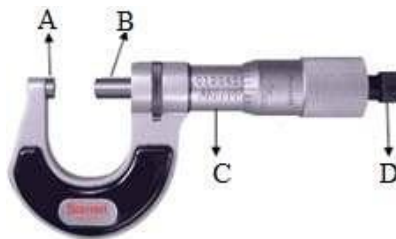


Figure 3

20. Name FIVE types of spanners used in an automotive workshop. (5 Marks)