

071604T4AUT

AUTOMOTIVE TECHNOLOGY LEVEL 4

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

PERFORM WORKS HOP TECHNOLOGY APPLICATIONS

Jul/Aug 2025

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Date: 25.07.2025 10:47 AM



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

WRITTEN ASSESSMENT

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Time: 2 HOURS

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INSTRUCTIONS TO CANDIDATE

1. This paper consists of two sections; **A** and **B**
2. Answer **ALL** the question as guided in each section
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

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This paper consists of FOUR (4) printed pages

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

Turn over

SECTION A (10 MARKS)

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

1. Which of the following tools is suitable for measuring internal and external dimensions accurately? Printed By: Technical And Vocational College Date: 25.07.2025 10:47 AM
- A. Steel Rule
 - B. Vernier Caliper
 - C. Hammer Printed By: Technical And Vocational College Date: 25.07.2025 10:47 AM
 - D. Scribers
2. Name the suitable material that is commonly used for . Printed By: Technical And Vocational College Date: 25.07.2025 10:47 AM
- A. Mild steel
 - B. Cast iron
 - C. High-speed steel (HSS)
 - D. Bronze
3. Which safety precaution is observed when using a bench grinder? Printed By: Technical And Vocational College Date: 25.07.2025 10:47 AM
- A. Remove guards for easy access
 - B. Stand directly in front of the wheel
 - C. Wear safety goggles and gloves
 - D. Use it with wet hands
4. Identify the type of file used for finishing curved surfaces. Printed By: Technical And Vocational College Date: 25.07.2025 10:47 AM
- A. Flat file
 - B. Half-round file
 - C. Round file Printed By: Technical And Vocational College Date: 25.07.2025 10:47 AM
 - D. Triangular file
5. _____ process involves joining metals using a filler metal with a lower melting point. Printed By: Technical And Vocational College Date: 25.07.2025 10:47 AM
- A. Riveting Printed By: Technical And Vocational College Date: 25.07.2025 10:47 AM
 - B. Brazing
 - C. Filing
 - D. Drilling Printed By: Technical And Vocational College Date: 25.07.2025 10:47 AM
6. Choose the hand tool used to create a starting point for drilling.
- A. Dot punch

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B. Scriber

C. Centre punch

D. Chisel

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7. Which of the following is a standard drawing convention?

A. DIN

B. SAE

C. ISO

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D. ASTM

8. Which tool ensures the squareness of a component during?

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A. Engineers square

B. Vernier caliper

C. Dot punch

D. Protractor

9. Preventive maintenance on workshop tools and equipment should be done;

A. Every two years

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C. As per pre-determined intervals

D. When the user decides

10. The polishing method that uses a coated abrasive sheet to remove surface irregularities is,

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A. Welding

B. Chiseling

C. So

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D. Sanding

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(40 MARKS)

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11 questions in this section.

11. Identify FOUR types of measuring tools used in a workshop.

(4 Marks)

12. State the uses of following types of hand files in the workshop.

(4 Marks)

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a) Flat file

b) Round file

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c) Needle file

d) Triangular file

13. Name FOUR types of workshop technology applications.

(4 Marks)

14. State FOUR safety rules to be followed in a mechanical workshop.

(4 Marks)

15. Identify FOUR surface finishing processes on work pieces in the workshop.

(4 Marks)

16. Name the various waste disposal methods utilized in a mechanical engineering workshop.

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(4 Marks)

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17. List FOUR types of faults you might encounter on workshop tools and equipment.

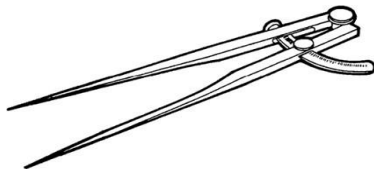
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(4 Marks)

18. Identify the tools and equipment shown in figures 1-4 below.

(4 Marks)



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Figure 1

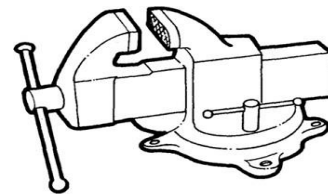
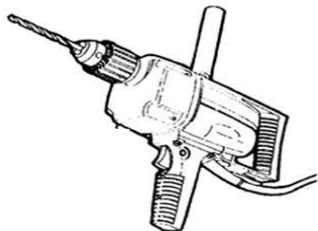


Figure 2



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Figure 3.

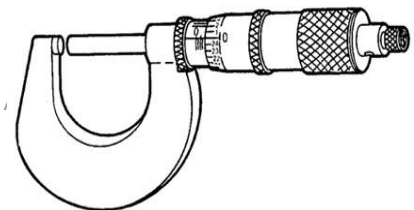
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Figure 4.

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19. Name FOUR maintenance practices usually carried out on workshop tools and equipment.

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(4 Marks).

20. List FOUR measuring instruments used for inspection and precision in the workshop.

(4 Marks)