

071605T4AUT

AUTOMOTIVE TECHNICIAN LEVEL 5

ENG/OS/AUT/CR/9/5/A

PERFORM VEHICLE BODY WORKS

March/April 2025



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

**WRITTEN ASSESSMENT
TIME: 3 HOURS**

INSTRUCTIONS TO CANDIDATE

1. This paper consists of **TWO** sections: **A** and **B**.
2. Answer **ALL** questions in section A and **ANY THREE** (3) questions in section B.
3. Marks for each question are indicated in the brackets.
4. Candidates are provided with a separate answer booklet.
5. Do not write on the question paper.

This paper consists of THREE (3) 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 (40 MARKS)***Attempt ALL Questions in This Section***

1. You are required to carry out body work on a vehicle in to workshop. List FOUR personal protective equipment you might need. (4 Marks)
2. During panel beating process, several techniques are applied to produce quality output. Outline FOUR such panel beating techniques (4 Marks)
3. Panel beating requires special tools that can be used to align the panel into the original shape. Explain the function of each of the following tools.
 - i. Comma Dolly
 - ii. Ball peen Hammer (4 Marks)
4. Upholstery materials that are used in the construction of vehicle seat are categorized into different types. Describe TWO properties of each of the following materials.
 - i. Polyester Upholstery
 - ii. Leather Upholstery (4 Marks)
5. Vehicle body panels are located in three sections of the vehicle. Describe FOUR panels found in front section of the vehicle. (4 Marks)
6. Welding is one of the methods used during vehicle body construction and repair of broken panels. List FOUR methods of welding used in autobody workshop (4 Marks)
7. Vehicle body design have distinct features depending on the design. Describe FOUR features of a station wagon car body design (4 Marks)
8. You have been assigned to clean the spray gun after spray painting work. Identify FOUR parts of spray gun that you cleaned. (4 Marks)
9. Cleaning the vehicle is a routine maintenance carried out to ensure the vehicle is neat and free from contaminants. Outline FOUR cleaning materials used. (4 Marks)
10. Preparation of panel is an essential task to be perform before application of paint. List FOUR preparation methods to be undertaken. (4 Marks)

SECTION B (60 MARKS)***Attempt Any THREE Questions in this Section***

11. a. The vehicle body parts can undergo damages due to accidents or other minor cause of damages. Outline FIVE of these damages and explain their nature of defects (10 Marks)
- b. Defects of spray painting occur due to issues associated with spray gun or other related factors. Outline FIVE defects and explain their cause. (10 Marks)
12. a. You have started a business of car wash and buffing. Explain FIVE importance of doing buffing to a vehicle body (10 Marks)
- b. Buffing requires special tools and equipment to achieve professional results. Explain FIVE buffing tools used. (10 Marks)
13. a. Spray painting has advantages to the vehicle body panels. Explains FOUR reasons of doing spray painting to vehicle body. (4 Marks)
- b. Automobile paints are made of compositions that are very important to the paint. Describe FOUR of these paints composition and give their functions. (8 Marks)
- c. Spray painting is one of the major activities that are carried out in order to achieve the final color following paints used in spray painting.
- i. Body filler
 - ii. Primer
 - iii. Undercoat
 - iv. Clear coat (8 Marks)
14. a. Vehicle body parts consist of sections that are joint together to form one unit called vehicle cabin or vehicle body. Outline FOUR methods that are used in joining vehicle body parts (4 Marks)
- b. The vehicle boy panels perform different functions according to where it is attached or joined. List FOUR types of these panels and explain their functions (8 Marks)
- c. You have frequently received request from your customers to undertake vehicle body repair and maintenance. Explain FOUR importance of the vehicle body maintenance. (8 Marks)