



ZIMBABWE

**MINISTRY OF HIGHER AND TERTIARY EDUCATION,
INNOVATION, SCIENCE AND TECHNOLOGY
DEVELOPMENT**

**HIGHER EDUCATION EXAMINATIONS COUNCIL
(HEXCO)**

NATIONAL CERTIFICATE

IN

MOTOR VEHICLE BODY REPAIRS AND REFINISHING

MODULE: Accident Damage Vehicle Body Repairs PAPER NO: 347/22/M01

DURATION: 3 Hours

MAY/JUNE 2025 EXAMINATION

REQUIREMENTS

1. Pen
2. Ruler
3. Pencil
4. Booklet

INSTRUCTIONS TO CANDIDATE

1. Section A: Answer all questions – (20 marks).
2. Section B: Answer all questions – (40 marks).
3. Section C: Answer all questions – (40 marks).

This paper consists of 4 printed pages.

SECTION A

QUESTION 1

- a) A misaligned door can be rectified by adjusting the -----.
(1 mark)
- b) State three (3) methods of extinguishing fire.
(3 marks)
- c) State the composition of the following solders:
- i) Tinman's fine (1 mark)
 - ii) Tinman's soft (1 mark)
- d) The density of argon in Gas Shielded arc welding is -----.
(1 mark)
- e) List personal safety gear used to protect the following:
- i) Head (1 mark)
 - ii) Eyes (1 mark)
 - iii) Feet (1 mark)
- f) When metal arc welding, why do we disconnect the battery before welding.
(2 marks)
- g) Give four (4) ways of joining sheet metal.
(4 marks)
- h) Give two (2) tools used for roughing out panels.
(2 marks)
- i) Name any two (2) frame misalignments found in panel beating.
(2 marks)

SECTION B

QUESTION 2

- a) Make a neat sketch to show a section through a welded joint. (4 marks)
- b) Highlight six (6) general rules that govern the use of the disc sander. (6 marks)

QUESTION 3

- a) Name and describe the two (2) types of glazing systems. (4 marks)
- b) Give the two (2) types of safety glasses used in motor industry and briefly describe them. (6 marks)

QUESTION 4

- a) Define each of the following:
- i) Total fusion (2 marks)
 - ii) Skin fusion (2 marks)
 - iii) Surface fusion (2 marks)
- b) Give any four (4) methods of controlling heat distortion when gas welding. (4 marks)

QUESTION 5

Sketch a neat diagram to show the leftward welding technique. (10 marks)

SECTION C

QUESTION 6

Explain the process of repairing a minor accident damage. (10 marks)

QUESTION 7

- a) Give three (3) factors that are required to make a good quality spot weld. (3 marks)
- b) Define the terms:
- i) Accident (1 mark)
 - ii) Hazard (1 mark)
- c) Give five (5) safety points to observe when using a wheeling machine. (5 marks)

QUESTION 8

- a) Describe the following types of misalignment.
- i) Sway (2 marks)
 - ii) Diamond (2 marks)
 - iii) Twist (2 marks)
 - iv) Kick-up / down (2 marks)
- b) State the safe method of welding used when replacing part panels to minimize heat distortion. (2 marks)

QUESTION 9

Describe how you would remove a damaged skin panel of a pick-up truck door and outline the process of replacing it. (10 marks)

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