

071605T4AMEM

AGRICULTURAL MACHINERY & EQUIPMENT MECHATRONICS

TECHNICIAN LEVEL 5

ENG/OS/AME/4/CR/1/5/A

DRIVE AGRICULTURAL MECHATRONICS MACHINERY AND EQUIPMENT

July/August, 2024



**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** the questions 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

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)

*Answer **ALL** the questions in this section*

1. List **four** PPEs that one should wear when driving agricultural machinery and equipment. (4 Marks)
2. Outline **four** agricultural machinery and equipment safety checks that should be performed before driving (4 Marks)
3. Highlight **four** reasons for ensuring the safety of farm machinery and implement before driving (4 Marks)
4. State **four** types of fluids that are checked. While performing tractor inspection (4 Marks)
5. Outline **four** tightening tools used in agricultural machinery and equipment. (4 Marks)
6. State **four** reasons why it is essential to inspect the condition of the agricultural machinery and equipment before it is driven. (4 Marks)
7. Outline the procedure to be followed when starting an agricultural machinery. (4 Marks)
8. List **four** housekeeping practices that should be considered when storing an agricultural machinery and equipment. (4 Marks)
9. Outline **four** safety practices performed when parking agricultural machinery and equipment. (4 Marks)
10. State **four** agricultural machinery conditions to check after use. (4 Marks)

SECTION B: 60 (MARKS)

Answer ANY THREE questions in this section

11.

(a) Explain **five** hazards associated with driving agricultural machinery and equipment.

(10 Marks)

(b) Describe **five** steps involved in cleaning of agricultural machinery.

(10 Marks)

12.

(a) Describe the procedures for safely operating a tractor on a steep slope.

(10marks)

(b) Discuss routine maintenance tasks performed on a tractor to ensure safe operation?

(10 marks)

13.

(a) Explain **five** traffic rule observed when driving agricultural machinery and equipment in Kenya

(10marks)

(b) Describe **five** methods of improving tractor traction

(10 marks)

14.

(a) Describe the procedure for parking a tractor with an attached trailer. (10 marks)

(b) Explain factors to consider when storing agricultural machinery and equipment.

(10 marks)

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