

071306T4EEN

ELECTRICAL ENGINEERING (POWER OPTION) LEVEL 6

ENG/OS/PO/CC/02/6

Perform Workshop Processes

March/April 2025



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

WRITTEN ASSESSMENT

INSTRUCTIONS TO CANDIDATE

1. This paper consists of **TWO** sections: **A** and **B**.
2. Attempt **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 (40MARKS)

Attempt ALL the questions in this section.

1. List FOUR human causes of accidents in the workshop. (4 marks)
2. State FOUR ways in which electric shock can be prevented in a workshop. (4 marks)
3. State FOUR safety precautions to be adhered to while working with a file. (4 marks)
4. Name FOUR items found in a first aid kit. (4 marks)
5. List FOUR categories of electrical tools giving an example in each case. (4 marks)
6. List FOUR activities carried out during preventive maintenance of tools and equipment in the workshop. (4 marks)
7. OSHA requires that staff wear footwear, state FOUR-foot hazards that may exist in the workplace. (4 marks)
8. Identify FOUR ways of storing tools in the workshop. (4 marks)
9. List FOUR signs that indicate a tool or machine needs maintenance. (4 marks)
10. State FOUR advantages of digital measuring tools. (4 marks)

SECTION B (60 MARKS)

Attempt any THREE questions in this section.

11. a. Enumerate FOUR classes of fire, stating the cause and the fire extinguisher used in each. (12 marks)
- b. After the victim has been removed from live contact, artificial respiration is provided, discuss the following methods. (8 marks)
- i. Holger-Nelson artificial respiration
 - ii. Mouth to mouth artificial respiration
12. a. An important aspect of any workshop is the storage of tools and equipment. Discuss FIVE importance of storing tools properly in the workshop. (10 marks)
- b. Hazard is anything that has the potential to cause harm, therefore safety should be adhered to at all times. Discuss FIVE general safety precautions that should be observed in the workshop. (10 marks)
13. a. ~~Equipment and tools~~ ~~are to be~~ ~~maintained~~
Explain THREE types of maintenance done in the workshop giving TWO advantages of each. (12 marks)
- b. Record keeping is essential in an electrical workshop. Explain FOUR importance of keeping a maintenance record. (8 marks)
14. a. First aid is the initial assistance given to a casualty. Describe the role of a first aider in the following accidents in the workshop. (12 marks)
- i. Bleeding
 - ii. Burns
 - iii. Broken bones
 - iv. Contact with chemicals
- b. Safety is paramount when repairing any faulty equipment. Discuss FOUR safety tips for troubleshooting tools and equipment. (8 marks)