

**071305T4EOP**

**Electrical Operator Level 5 (Power Option)**

**ENG/OS/PO/CR/02/5**

**Apply workshop processes**

**July/August 2023**



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

**WRITTEN ASSESSMENT**

**3 HOURS**

**INSTRUCTIONS TO CANDIDATE**

*This paper consists of sections A, B and C.*

*Answer **all** questions in section A & B and any **two** questions from section C in the answer booklet and drawing papers provided.*

*Do not write on the question paper.*

*Marks for each question are indicated in the brackets.*

***Only** use CAD software for the specified questions.*

**This paper consists of seven (7) printed pages.**

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

**SECTION A: (20 Marks)**

*Answer all questions in this section*

1. Which of the following is true about faulty tools? (1mark)
  - A. safe to use
  - B. difficult to find
  - C. Save money
  - D. Can cause injuries
  
2. Which one of the following is not a benefit of using PPE? (1mark)
  - A. Reduced chances of electric shock
  - B. Prevents death
  - C. Restricts comfort and movement
  - D. Prevents respiratory infections
  
3. What is a fire escape? (1mark)
  - A. A way of running away from the fire
  - B. Designated window
  - C. Emergency exit
  - D. A fire assembly point
  
4. What is the name of the book where the tools' list is kept in a workshop? (1mark)
  - A. Tools Catalogue
  - B. Tools inventory
  - C. Tools black book
  - D. Tools master roll
  
5. Repairing of tools should take place \_\_\_\_\_. (1mark)
  - A. After a long time
  - B. After using them
  - C. Immediately they develop problems
  - D. Once every year

6. What is the importance of a polarity test? (1mark)
- A. To confirm proper insulation
  - B. To ensure that the sockets and lamps are connected in order
  - C. To ensure that each phase has continuity
  - D. To make sure that the three phases are not interconnected
7. Which of the following tools is used to carry out the continuity test? (1mark)
- A. Multi-meter
  - B. Pliers
  - C. Screw driver
  - D. Ruler
8. The reason why we learn safety is to\_\_\_\_\_ . (1mark)
- A. avoid being arrested
  - B. enable the trainer to pass examination
  - C. make everybody conscious
  - D. make safety costly
9. Which of the following is true about a special waste? (1mark)
- A. It can be dumped anywhere
  - B. It doesn't affect the people's health
  - C. It is considered hazardous
  - D. It requires specific handling for proper disposal
10. All equipment designed to be worn or held to protect against a risk to health and safety are referred to as\_\_\_\_\_ . (1mark)
- A. Hazard
  - B. Risk
  - C. PPE
  - D. IEE.

11. From the list below choose the potentially most dangerous work activity. (1mark)
- A. Working on a live circuit
  - B. Working inside a grain silo
  - C. Fixing a socket outlet
  - D. Fixing a luminaire
12. Which of the following is the safest environment to work in? (1mark)
- A. Working on a live circuit
  - B. Work in isolation
  - C. Work above ground level
  - D. Working in the dark
13. What is the danger of storing electric tools in a moist environment? (1mark)
- A. Corrosion of metal parts
  - B. Tools gets lost
  - C. Lack of locating tools on time
  - D. Tools disintegrate
14. To avoid back injury when manually lifting heavy weights from ground level workers should \_\_\_\_\_. (1mark)
- A. Bend both legs and back
  - B. Bend legs but keep back straight
  - C. Keep legs straight but bend back
  - D. Keep both legs and back straight
15. Choose the three components that must be present for any fire to continue to burn. (1mark)
- A. Fuel, wood, cardboard
  - B. Petrol, oxygen, bottled gas
  - C. Flames, fuel, heat
  - D. Fuel, oxygen, heat
16. What is the initial assistance given to a casualty for any sudden injury called? (1mark)
- A. Assembly point
  - B. Nominated person
  - C. First aider
  - D. First aid

17. Record keeping in an electrical workshop helps to\_\_\_\_\_. (1mark)
- A. Arrange tools
  - B. Predict equipment life
  - C. Sell extra equipment
  - D. Avoid budgeting for tools
18. Which of the following is not an importance of proper storage of tools? (1mark)
- A. Tool durability
  - B. Improved accessibility
  - C. Reduced use of one tool
  - D. Saves time
19. Which of the following is not a type of waste disposal methods? (1mark)
- A. Recycling-
  - B. Exporting
  - C. Incineration
  - D. Landfill/waste compaction
20. Tools and equipment should be organized according to\_\_\_\_\_. (1mark)
- A. Frequency of use
  - B. Size of the tools
  - C. Manufacturer
  - D. Power or non-powered

**SECTION B: (40 Marks)**

*Answer all questions in this section*

21. List any **four** factors to consider when deciding whether to repair or replace equipment in the workshop. (4marks)
22. State **five** advantages of keeping an equipment maintenance record. (5marks)
23. State **five** sources of accidents in an electrical workshop. (5marks)
24. Define Personal Protective Equipment. (2marks)
25. What is an accident? (2marks)
26. What is an electric shock? (2marks)
27. State **two** reasons why tools and Equipment are calibrated. (3marks)
28. State **five** importance of proper storage of tools and equipment. (5marks)
29. Outline the standard procedure for storing tools. (5marks)
30. State **four** reasons why it is important to keep a tools and equipment inventory. (4marks)
31. List any **three** activities carried out during preventive maintenance. (3marks)

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**SECTION C: (40 Marks)**

*Answer any two questions in this section*

32. a) List down:
- i. **Six** applications of the pliers; (6marks)
  - ii. **Two** applications of an electrician's knife. (2marks)
- b) State **six** ways of maintaining:
- i. Hack saws; (6marks)
  - ii. Pliers. (6marks)
33. a) State **five** types of hazards caused by electricity. (5marks)
- b) Outline the procedure of doing first aid on a victim who is not breathing. (5marks)
- c) Explain **five** importance of tools and equipment maintenance record. (10marks)
34. a) List any **three** examples for each of the following classifications of tools: (9marks)
- i. On the basis of shape;
  - ii. In the basis of grades;
  - iii. On the basis of cut.
- b) State any **seven** disadvantages of PPE. (7marks)
- c) State **four** repercussions of incorrectly handling an electrical instrument. (4marks)

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