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**071304T4EIN****ELECTRICAL INSTALLATION LEVEL 4****ENG/OS/EI/CC/02/4/A****PERFORM WORKSHOP PROCESSES****July/August 2025**

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

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**WRITTEN ASSESSMENT****Time: 2 HOURS**

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**INSTRUCTIONS TO CANDIDATE**

1. This paper consists of **TWO** sections **A** and **B**.
2. Attempt **ALL** the questions in each section.
3. Marks for each question are indicated in the brackets.
4. You are provided with a separate answer booklet to answer the questions.
5. Do not write on the

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**This paper consists of FOUR (4) printed pages**

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

**SECTION A (10 MARKS)****Answer all questions in this section. Each question carries one mark**

1. ~~Plas, cuttes, a knife a screw drivers~~ are the tools required in electrical installation projects, for?
  - A. Joining steel conduits
  - B. Installing Junction Boxes
  - C. ~~Strip ping and connecting conductors~~
  - D. Dismantling trays
2. Kasongo is an electrical technician working on an electrical installation project at Wamunyoru Industry. Name the personal protective equipment that is most appropriate for him to wear when conducting continuity tests on the project.
  - A. Safety goggles
  - B. Safety shoes
  - C. Safety helmet
  - D. Safety gloves
3. It is important to dispose waste materials based on Environmental, Health and Safety Standards. Name an example of 'Special Waste'.
  - A. Sheets of asbestos
  - B. Old fibre-glass roof insulation
  - C. Old fluorescent tubes
  - D. Parts coils of PVC insulated cables
4. Identify the instrument used to measure small sizes of diameters of wires/conductors.
  - A. Tape measure
  - B. Oscilloscope
  - C. Micrometer screw gauge
  - D. Set square
5. Special Waste must be disposed of;
  - A. In the general site skips
  - B. One designated to have a 'duty of care'
  - C. At the 'Household Waste' re-cycling centre
  - D. By an 'authorised company' using a system of waste transfer notes'

6. When using a fire extinguisher, it is important to check on the pressure gauge. The purpose of a pressure gauge on the extinguisher is?

- A. To indicate the temperature of the extinguishing agent
- B. To indicate the remaining amount of extinguishing agent
- C. To indicate the type of fire the extinguisher can handle
- D. To indicate the expiration date of the extinguisher

7. Tools and equipment are usually serviced and repaired in the workshop. Name the first step in repairing faulty equipment.

- A. Disassembling them completely.
- B. Assembling broken parts
- C. Soldering loose connections
- D. Identifying the problem or symptom.

8. Give the first course of action in the event of fire in the electrical workshop.

- A. Call a colleague for help
- B. Attempt to extinguish the fire yourself
- C. Evacuate the area and activate the fire alarm and call 911
- D. Continue working as usual without panic

9. Responding promptly to victims of electric shock in the workshop can save them from severe injuries or even death. What should be the immediate response when someone in the workshop suffers an electrical shock?

- A. Tell person to extinguish the fire
- B. Disconnect the power source
- C. Touch the person to check for a pulse
- D. Call for ambulance for him to be referred to a hospital

10. Issuing and receiving tools and equipment to ensure proper storage practices in the workshop. Name the book that is used to track movement of tools.

- A. Tools Catalogue
- B. Tool box
- C. Tools black book
- D. Tools master roll

**SECTION B (40 MARKS)*****Attempt ALL questions in this section.***

11. Calibration of tools and equipment is an integral part of workshop processes. Give FOUR reasons for calibrating tools used in electrical works. (4 Marks)
12. Before starting any electrical work on any project, it is important to assess risks involved in the works. Give FOUR objects of conducting risk assessment on an electrical installation project. (4 Marks)
13. First Aid is the immediate care given to a person who is injured in case of an accident before they are treated by medical practitioners. Give FOUR components of a First Aid Kit in an electrical workshop. (4 Marks)
14. Hand tools if not handled properly can cause body injuries. List FOUR main causes of injury while using hand tools. (4 Marks)
15. Salasya is technician in charge of workshop operations at an electrical installation site. Outline FOUR reasons why he must ensure regular maintenance of workshop tools and equipment (4 Marks)
16. Outline THREE importance of proper storage of tools and equipment? (3 Marks)
17. Wastes from the workshop may be classified as hazardous or non-hazardous. Differentiate between hazardous and non-hazardous material. (2 Marks)
18. Name FOUR workshop tools and equipment used for the following activities (4 Marks)
19. Give THREE safety measures that should be observed when electrical circuits or equipment in the workshop? (3 Marks)
20. Name the FOUR classes of fire (4 Marks)
21. Outline to follow when using a fire extinguisher in the event of an electrical fire in the workshop? (4 Marks)