

071305T4EOP

ELECTRICAL OPERATION (POWER OPTION) LEVEL 5

ENG/OS/PO/CC/03/5

PERFORM WORKSHOP PROCESSES

July/August 2024

Time: 3 Hours



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

WRITTEN ASSESSMENT

3 HOURS

INSTRUCTIONS TO CANDIDATE:

1. This tool consists of **TWO** sections: **A** and **B**.
2. Answer **ALL** questions in sections **A** and **THREE** questions in **B** in the answer booklet provided.
3. Marks for each question are indicated in the brackets.
4. Do not write on the question paper
5. Answer all questions in **English**.

This tool consists of FOUR (4) printed pages

**Candidate should check the tool to ascertain that all the pages are printed as indicated and that
no questions are missing.**

SECTION A (40 Marks)

Answer ALL questions

1. Workshop safety encompasses a broad range of practices and precautions aimed at protecting individuals, equipment, and the environment within a workshop setting. State **three** general types of workshop safety. (3marks)
2. Document control typically involves managing documents throughout their lifecycle to ensure accuracy, integrity, security, and accessibility. Outline the **three** categories of document control. (3 marks)
3. When storing instruments, it's crucial to maintain their quality, functionality, and safety. List the key points to remember when storing instruments. (4 marks)
4. Following manufacturer's instructions when using tools is essential for safety and effective performance. Explain the importance of following manufacturer's instructions when using tools. (2 marks)
5. Many industries are subject to regulations or standards that require regular calibration of instruments. List **three** main reasons for instruments calibration. (3 marks)
6. Compliance with waste regulations typically involves adherence to laws and guidelines aimed at minimizing environmental impact and ensuring proper waste management. Highlight **four** ways of complying with the Waste Regulations. (4 marks)
7. By establishing robust record-keeping in an electrical workshop, organizations can enhance safety, compliance, efficiency and cost-effectiveness in their operations. State any **four** reasons for record keeping in an electrical workshop. (4 marks)
8. Compliance with EHS regulations is essential for creating a safe and healthy work environment, reducing the risk of accidents and injuries, and protecting the well-being of employees. List **four** Regulations for health and safety at work. (4 marks)
9. Preparation of the workshop after use for the next activity is an important exercise that needs to be observed keenly. State any **three** activities to be carried out in preparing a workshop for the next task ahead. (3 marks)
10. In a workshop setting, you might encounter various types of files depending on the nature of the work being done. List **three** types of files. (3 marks)
11. Proper storage of tools is essential for efficiency, safety, and maintaining the lifespan of the tools. Explain **two** importance of proper storage of tools. (4 marks)

12. Deciding whether to repair or replace equipment in a workshop involves considering several factors to make an informed decision. List any **three** factors to consider when deciding whether to repair or replace equipment in the workshop. (3 marks)

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SECTION B (60 Marks)

Answer **THREE** questions in this section, each question carries equal marks.

13. Working in a workshop requires attention to safety and practicality in clothing choices.
- a) Explain **five** basic dress rules that you should always follow while working in a workshop. (10 marks)
 - b) While PPE is a crucial component of workplace safety, it should be used in conjunction with other control measures to effectively mitigate risks and ensure the health and well-being of Workers. State any **six** limitations of PPE. (6 marks)
 - c) Highlight any **four** ways on how Personal Protective Equipment should be taken care of. (4 marks)
14. Maintenance is crucial for various systems, equipment, and processes in both personal and professional spheres.
- a) State any **four** importance of maintenance. (4 marks)
 - b) Explain **five** different types of maintenance. (10 marks)
 - c) List any **six** activities carried out during preventive maintenance. (6 marks)
15. Working with tools requires careful attention to safety to prevent accidents and injuries.
- a) State **three** safety precautions to be observed while working with the following tools: (6 marks)
 - i. Chisels;
 - ii. Hammers.
 - b) List any **three** examples for each of the following classifications of tools: (9 marks)
 - i. On the basis of shape;
 - ii. On the basis of grades;
 - iii. On the basis of cut.
 - c) List any **five** tools required in every working station when carrying out solar installation. (5 marks)

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