

073206T4BLD

BUILDING TECHNICIAN LEVEL 6

CON/OS/BUT/BC/CU/04/6

Apply Workshop Technology Practices

July/August 2025



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

WRITTEN ASSESSMENT

TIME: 3 HOURS

INSTRUCTIONS TO CANDIDATE

1. This paper has two sections A and B. Attempt questions in each section as per the instructions given in the section.
2. You are provided with a separate answer booklet.
3. Marks for each question are indicated in the brackets.
4. Do not write on the question paper.

This Paper Consists of FIVE (5) Printed Pages.

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

SECTION A (40 MARKS)

Attempt all questions in this section.

1. There are different types of fire extinguishers, designed to tackle specific classes of fires. Identify FOUR commonly used types of fire extinguishers. (4 Marks)
2. Observing proper safety precautions before handling any tool or equipment helps prevent accidents. Which FOUR general safety precautions would you observe before handling any tool or equipment? (4 Marks)
3. In gas welding, different types of flames are produced based on the ratio of oxygen to fuel gas. List TWO types of gas welding flames. (2 Marks)
4. In woodwork and metalwork, various tools are used to perform specific tasks accurately and efficiently. State the functions of the following tools: (4 Marks)
 - a. G - Clamp.
 - b. Mortise gauge.
5. Understanding the specific functions and applications of machines is important for selecting the right tools for a given task. Differentiate between a concrete mixer and a compactor. (4 Marks)
6. The sources from which we obtain energy can vary widely, each with its benefits, limitations and environmental impacts. Identify THREE major sources of energy. (3 Marks)
7. While hand tools have been used for centuries, modern machine tools offer significant advantages. List any FOUR benefits of using machine tools over hand tools. (4 Marks)
8. A plumbing auger is used to remove blockages from drains. Outline the steps involved in using a plumbing auger to clear a clogged drain. (4 Marks)
9. Diesel engines offer several advantages in performance. Give FOUR advantages of a diesel engine over a petrol engine. (4 Marks)
10. A quick and proper response to emergencies can help prevent further complications. Outline the process applied to assist restore respiration to a trainee who has fainted in the mechanical workshop. (4 Marks)
11. Identifying common causes of accidents in the workshop creates a safer working space. Highlight THREE causes of accidents in a workshop. (3 Marks)

