

073205T4BLD

BUILDING TECHNICIAN LEVEL 5

CON/OS/BUT/CR/05/5

Install Doors and Windows

March/April 2026



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

WRITTEN ASSESSMENT

TIME: 2 HOURS

INSTRUCTIONS TO CANDIDATE

1. This paper consists of **TWO** sections: **A** and **B**.
2. Answer **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

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

SECTION A (40 MARKS)

Answer ALL questions in this section.

1. You are constructing a battened & ledged store door. Identify FOUR ways you will ensure durability of the door. (4 marks)
2. It is important to use the right tools when fixing doors and windows. List FOUR tools required to ensure correct alignment. (4 Marks)
3. Proper planning of doors and windows is necessary to avoid errors and delays. State FOUR reasons why door and window schedules are important before installation. (4 Marks)
4. After hanging a door, state FOUR checks you would carry out before final approval. (4 Marks)
5. Working at height exposes workers to fall hazards. State FOUR safety precautions to observe when installing doors and windows at height. (4 Marks)
6. Hinges controls door movement within the frame. State FOUR reasons why fixing of hinges is critical in door installation. (4 Marks)
7. While fixing a front door, a contractor requires ironmongery. Mention FOUR types of ironmongery used in fixing doors. (4 Marks)
8. You are tasked to construct a door frame. List FOUR members that make up the door frame (4 Marks)
9. Windows must be strategically located in a building. As a foreman state FOUR factors that you would consider when locating a window. (4 Marks)
10. Different environments will dictate the type of windows to be used in a building. Identify FOUR considerations when selecting materials for door shutters in humid environments. (4 Marks)

SECTION B (60 MARKS)

Answer THREE questions in this section.

11. You are assigned to install door and window frames in a health facility.
- a. With a well-labelled sketch, draw a wooden door frame, indicating its main members. (10 Marks)
 - b. Explain FIVE factors to consider in determining the number of doors in a room. (10 Marks)
12. The choice of materials for door shutters affects durability, safety, cost, and overall performance of the structure.
- a. Explain FIVE factors to consider when selecting materials for door shutters. (10 Marks)
 - b. Discuss FIVE common defects resulting from poor shutter construction. (10 Marks)
13. Ironmongery installation is a critical aspect of doors and windows.
- a. Describe FIVE functions of ironmongery used in door installation. (10 Marks)
 - b. Explain FIVE tests carried out to confirm ironmongery meets functional requirements. (10 Marks)
14. You are supervising installation works on a multi-Storey building.
- a. Explain FIVE occupational health and safety hazards associated with door and window installation. (10 Marks)
 - b. Explain FIVE control measures used to minimize risks during installation. (10 Marks)

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