

073206T4BLD

BUILDING TECHNOLOGY LEVEL 6

CON/OS/BUT/CR/03/6

Produce Masonry Units

November/December 2025



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

WRITTEN ASSESSMENT

TIME: 3 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)

Attempt ALL the questions in this section.

1. Concrete blocks are a common masonry unit. State THREE types of concrete blocks used in construction. (3 Marks)
2. Stone masonry is a traditional construction method. Outline FOUR advantages of using stone as a building material. (4 Marks)
3. Tiles in masonry work are essential for achieving a smooth and durable finish. Outline THREE main materials commonly used in the production of ceramic tiles. (3 Marks)
4. Interlocking bricks are modern alternative building solution to traditional bricks. Highlight FIVE benefits of using interlocking bricks in construction. (5 Marks)
5. Soil stabilization involves improving the properties of soil to make it suitable for construction. List THREE ingredients used to make of soil-stabilized products. (3 Marks)
6. Proper preparation of concrete moulds is critical for achieving quality concrete products. State FOUR checks performed on a mould before the concrete is poured. (4 Marks)
7. Curing is a critical process in concrete product manufacturing. Outline FOUR reasons why concrete products are cured. (4 Marks)
8. You are inspecting a delivery of bricks on site. Highlight FOUR visual characteristics you would check to ensure the bricks are of good quality. (4 Marks)
9. A concrete block has specific features. Give THREE features of a standard concrete hollow block. (3 Marks)
10. After bricks have been burnt, they are classified into various groups based on their appearance and degree of burning. Highlight THREE classifications of burned bricks. (3 Marks)
11. Controlled drying is essential to prevent defects in green bricks. Identify FOUR environmental factors that must be managed during the natural drying of bricks. (4 Marks)

SECTION B (60 MARKS)

Attempt Any THREE Questions in this Section

12. A client has requested quality masonry walling and reliable clay products for a construction project, as a building technician you are required to address both stone dressing and clay preparation aspects.
- a. Describe FIVE types of stone dressing and finish. (10 Marks)
 - b. Explain the steps involved in the preparation of clay. (10 Marks)
13. The selection of appropriate masonry units is vital for the structural integrity and aesthetics of a building.
- a. Discuss FIVE factors a building technician must consider when selecting good bricks for storage and use from produced bricks. (10 Marks)
 - b. Describe FIVE common defects found in produced bricks and their potential causes. (10 Marks)
14. Quality control is essential in the production of bricks and concrete blocks, with focus on moulding and concrete preparation processes.
- a. Explain FOUR properties that a well-moulded brick must possess after the moulding process is complete. (8 Marks)
 - b. Describe the process of preparing concrete and placing concrete during the production of concrete blocks. (12 Marks)
15. Your institution has been contracted by a supplier to produce precast concrete blocks, and you have been assigned the supervision role during production process.
- a. Describe the procedure for preparing a concrete steel mould. (10 Marks)
 - b. Discuss procedure for dismantling and cleaning of steel concrete moulds. (10 Marks)