

073206T4BLD

BUILDING TECHNICIAN LEVEL 6

CON/OS/BUT/CR/03/6

Produce Masonry Units

July/August 2025



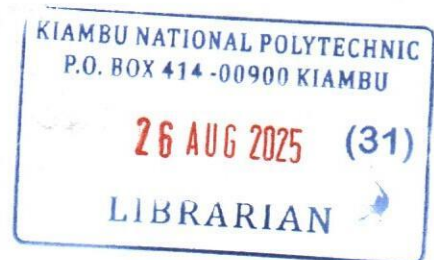
**TVET CURRICULUM DEVELOPMENT, ASSESSMENT AND CERTIFICATION
COUNCIL (TVET CDACC)**

WRITTEN ASSESSMENT

Time: 3 HOURS

INSTRUCTIONS TO CANDIDATE

1. Marks for each question are indicated in the brackets.
2. The paper consists of **TWO** sections: **A** and **B**.
3. Candidates are provided with a separate answer booklet
4. **DO NOT** write on this question paper.



This paper consists of THREE (3) printed pages.

Candidates 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 Questions in This Section.

1. Dressing of stones involves the process of shaping, smoothing, and finishing stones after they are quarried, to make them suitable for use in construction. List FOUR importances of dressing stone surfaces. (4 Marks)
2. Masonry units is a general term used in construction to refer to the building blocks used in masonry work. Identify FOUR characteristics of masonry units. (4 Marks)
3. Proper storage of burnt bricks is essential to maintain their strength, shape, and quality before use in construction. Outline THREE suitable ways for storing burnt bricks. (3 Marks)
4. Multiple forms of masonry units are utilized in building construction. Give FOUR disadvantages of brick masonry as compared to stone masonry. (4 marks)
5. Preparing concrete products entails various stages. After curing, concrete products may be finished by: Highlight THREE ways concrete products may be finished after curing. (4 Marks)
6. Building stone is a naturally occurring solid rock material that can be quarried, shaped, and used in construction work for its strength, durability, or aesthetic appeal. Highlight FOUR types of building stones. (4 Marks)
7. Floor tiles are mainly used for covering floors in residential, commercial, and industrial spaces as floor finish. State FOUR broad stages involved in the manufacturing process of floor tiles. (4 Marks)
8. Burning or baking of clay products is the last stage during manufacturing process and involves heating dried clay products. Give FOUR stages in which clay products undergo during burning. (4 Marks)
9. Floor tiles are thin, flat building units used to cover floors, providing a durable, decorative, and easy-to-clean surface. List FOUR types of floor finish tiles. (4 Marks)
10. Curing concrete is an essential step in the concrete construction process. Outline THREE importance of curing concrete. (3 Marks)
11. Batching of concrete involves the process of measuring and preparing exact quantities of the concrete constituents. Name TWO common methods used batching. (2 Marks)

SECTION B (60 MARKS)

Attempt any THREE (3) questions in this section.

12. Mr. Njeru, a contractor, has been contracted for a proposed building project. The project has commenced and he has tasked you as building technician in charge of concrete works.
- a. Explain THREE factors that will affect the quality and workability of the concrete mix. (6 Marks)
 - b. Discuss any THREE main constituents of concrete used in concrete mix design. (6 Marks)
 - c. Describe FOUR step process of mixing concrete constituents. (8 Marks)
13. Drying bricks is a critique step when manufacturing bricks:
- a. Describe THREE importance of client specifications in preparing brick moulds. (6 Marks)
 - b. Explain THREE significances of molding bricks according to the prescribed size. (6 Marks)
 - c. Explain FOUR purposes and importance of drying bricks. (8 Marks)
14. Dressing of natural building stones provides a good appearance and makes them useful for masonry works.
- a. Discuss FIVE types of stone dressing. (10 Marks)
 - b. Describe FIVE types of finishes in stone dressing. (10 Marks)
15. You have been appointed as a member of the technical team in a construction firm that is building a commercial project. During the implementation of the project, you are going to use concrete hollow blocks and clay bricks in masonry wall construction;
- a. Discuss FIVE types of concrete hollow blocks explaining their usage in each case. (10 Marks)
 - b. Describe the preparation process of clay for bricks production. (10 Marks)

