



**higher education
& training**

Department:
Higher Education and Training
REPUBLIC OF SOUTH AFRICA

T80(E)(A6)T

NATIONAL CERTIFICATE

BRICKLAYING AND PLASTERING THEORY N2

(11010102)

**6 April 2018 (X-Paper)
09:00–12:00**

Drawing instruments may be used.

This question paper consists of 4 pages.

DEPARTMENT OF HIGHER EDUCATION AND TRAINING
REPUBLIC OF SOUTH AFRICA
NATIONAL CERTIFICATE
BRICKLAYING AND PLASTERING THEORY N2
TIME: 3 HOURS
MARKS: 100

INSTRUCTIONS AND INFORMATION

1. Answer ALL the questions.
 2. Read ALL the questions carefully.
 3. Number the answers according to the numbering system used in this question paper.
 4. Write neatly and legibly.
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QUESTION 1

Indicate whether the following statements are TRUE or FALSE. Choose the answer and write only 'true' or 'false' next to the question number (1.1–1.10) in the ANSWER BOOK.

- 1.1 Structural walls will carry the weight of a roof or an extra storey without collapsing.
- 1.2 A damp-proof course is a barrier in a wall that prevents moisture from rising up through the building.
- 1.3 A cavity wall is a single-leaf wall.
- 1.4 Weep holes are small openings left in the outer skin of the wall to drain away moisture from inside the building.
- 1.5 Lintels are built into a wall to support the foundation.
- 1.6 Roof ties are built into internal walls to support the roof.
- 1.7 Brick force is a steel reinforcement that looks like a long ladder.
- 1.8 The purpose of a flue in a fireplace is to withdraw gasses and smoke.
- 1.9 Stretcher bond is also known as quarter bond.
- 1.10 A soffit is the underside of a structural component like an arch, slab or beam. (10 × 1) **[10]**

QUESTION 2

- 2.1 What is the purpose of caps on a pier? (1)
- 2.2 Name FOUR types of coping used on top of walls. (4)
- 2.3 Draw, to an approximate scale of 1 : 10, the alternate plan course of a corner in a 270 mm cavity-wall construction in stretcher bond. (9 × 2) (18) **[23]**

QUESTION 3

- 3.1 Describe the procedure for tiling a floor previously prepared with topping surface. (12)
- 3.2 What is the proper procedure to set up a stepladder? (4)
- 3.3 Name THREE types of building boards commonly used in the building industry. (3)

3.4 Explain each the following fireplace terms:

3.4.1 Gathering

3.4.2 Rendering

3.4.3 Flaunching

(3 × 2) (6)
[25]

QUESTION 4

Draw, to an approximate scale of 1 : 10, the alternate plan course of a two-brick cross intersection in English bond.

[20]

QUESTION 5

5.1 What is the purpose of weep holes in a cavity wall? (1)

5.2 Why is it necessary to rule the joint in a wall? (2)

5.3 List SIX tools that a tiler will use when tilling a floor or a wall. (6)

5.4 Define the term *trestle*. (1)

[10]

QUESTION 6

6.1 Why is it not permissible to add extra water when floating and trowelling a surface? (2)

6.2 Make freehand sketches of each of the following types of fireplaces:

6.2.1 Double-breast fireplace

6.2.2 Single-breast fireplace

(2 × 3) (6)

6.3 State FOUR of Count Rumford's essential points for a fireplace design. (4)

[12]

TOTAL: 100