higher education & training

Department:
Higher Education and Training
REPUBLIC OF SOUTH AFRICA

T91(E)(N11)T
NOVEMBER 2010

NATIONAL CERTIFICATE

BRICKLAYING AND PLASTERING THEORY N1

(11010091)

11 November (X-Paper)
09:00 – 12:00

This question paper consists of 3 pages.

DEPARTMENT OF HIGHER EDUCATION AND TRAINING
REPUBLIC OF SOUTH AFRICA

NATIONAL CERTIFICATE
BRICKLAYING AND PLASTERING THEORY N1
TIME: 3 HOURS
MARKS: 100

INSTRUCTIONS AND INFORMATION

1. Answer ALL the questions.
2. Read ALL the questions carefully.
3. Number the answers correctly according to the numbering system used in this question paper.
4. ALL the drawings and sketches must be done in pencil only.
5. Write neatly and legibly.

QUESTION 1

1.1	Name the FOUR main groups into which bricklaying tools can be divided.	(4)
1.2	State FOUR points to be considered when selecting a spirit level.	(4)
1.3	What is the main purpose of a gauge rod?	(3)
1.4	Briefly describe the method used to mark off a gauge rod.	(5)
1.5	Name FOUR tools that can be used for plastering.	(4)
		[20]

QUESTION 2

2.1 Define the term *fire bricks.* (2)

2.2 What is meant by the term *no-fines concrete*? (2)

2.3 Name TWO places where no-fines concrete can be used. (2)

2.4 Name FOUR admixtures that can be added to a mix. (4)

2.5 Briefly describe how building lime is manufactured. (10)
[20]

QUESTION 3

3.1 Name FIVE different methods that can be used to cure concrete. (10)

3.2 Concrete used on a construction site must always conform to the specifications. Briefly describe how a slump test is performed. (10)
[20]

QUESTION 4

Draw, according to scale 1:10, a vertical section through the bottom eight courses of a one-brick solid external wall. The drawing must show the following details:

Concrete strip foundation 600 mm × 200 mm
Ground level, three courses above the concrete foundation
Damp-proof course, two courses above the ground level
Hardcore filling 75 mm thick
Concrete slab 75 mm thick
Topping 20 mm thick
Internal plaster 15 mm
Plastered skirting 75 mm **[20]**

QUESTION 5

Draw, according to scale 1:10, the alternate plan courses of a T-junction formed between two one-and-a-half brick walls in Flemish bond. **[20]**

TOTAL: 100