



# higher education & training

Department:
Higher Education and Training
REPUBLIC OF SOUTH AFRICA

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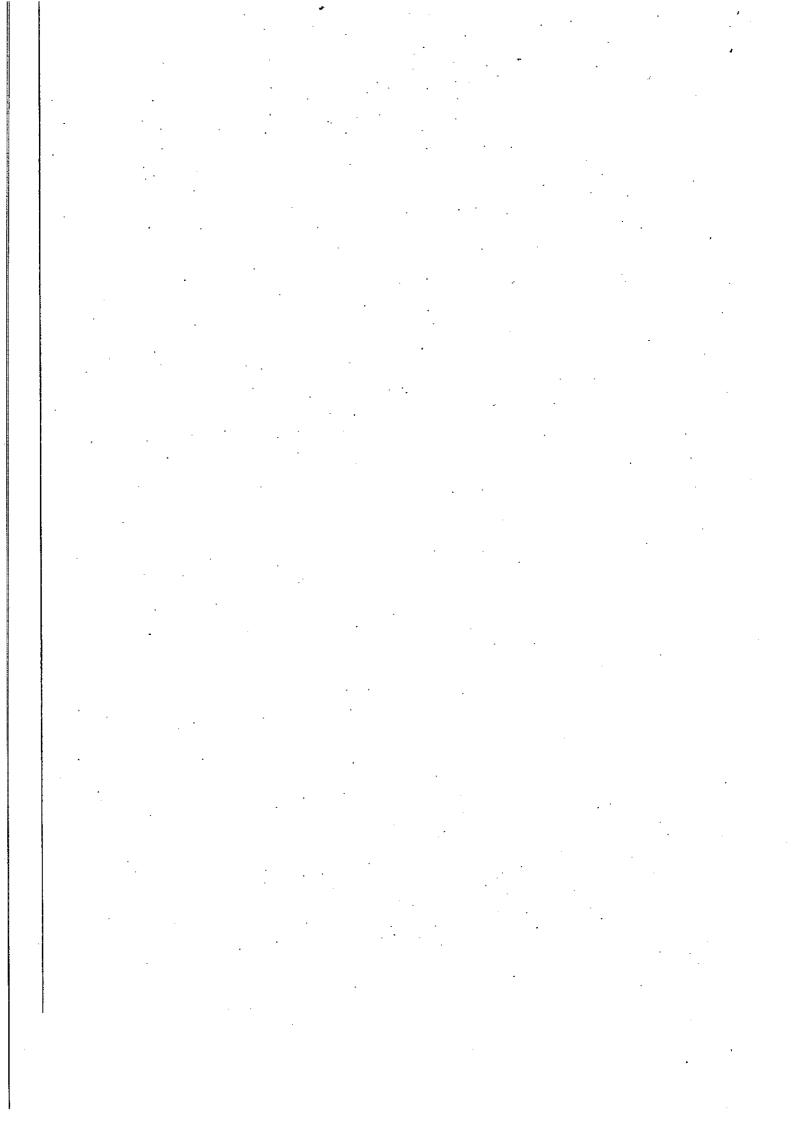
NATIONAL CERTIFICATE

### **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.
- 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) <b>[20]</b>

#### **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) <b>[20]</b>	

#### **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:

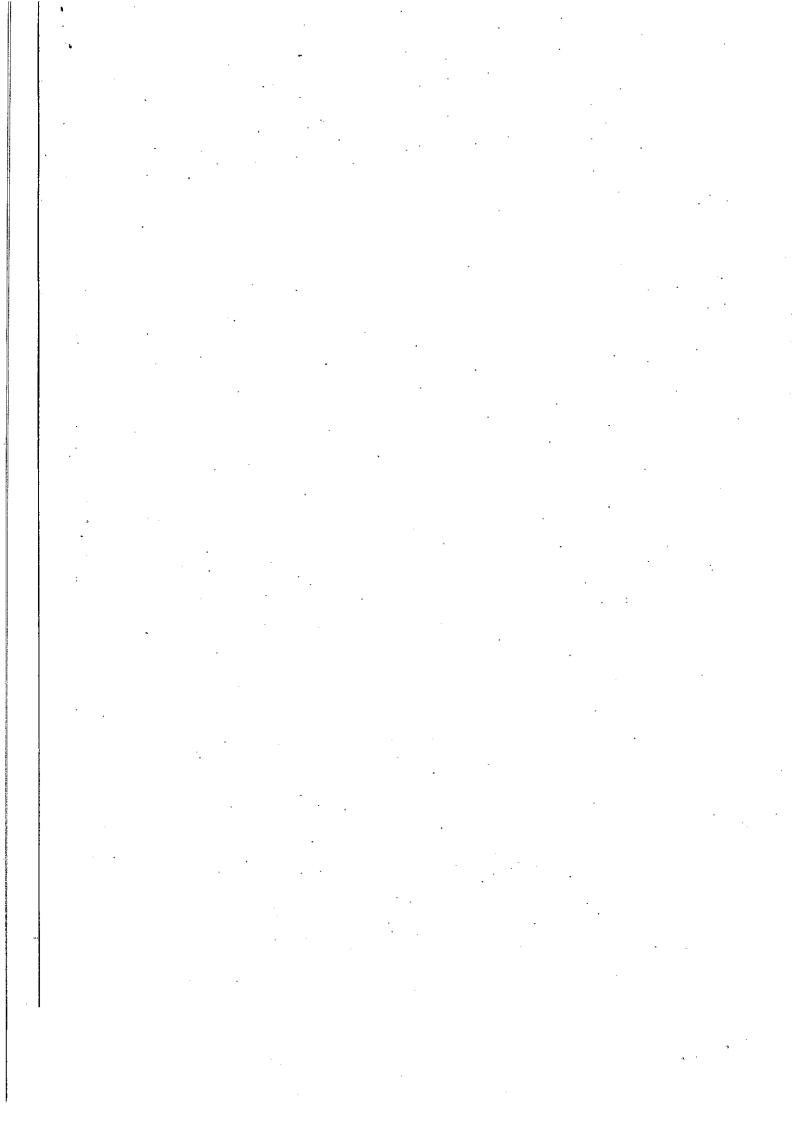
Concrete strip foundation 600 mm × 200 mm
Ground level, three courses above the concrete foundation
Damp-proof course, two courses above the ground level
Hardcore filling 75 mm thick
Concrete slab 75 mm thick
Topping 20 mm thick
Internal plaster 15 mm
Plastered skirting 75 mm

[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



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