



**higher education
& training**

Department:
Higher Education and Training
REPUBLIC OF SOUTH AFRICA

MARKING GUIDELINE

**NATIONAL CERTIFICATE
BUILDING AND STRUCTURAL SURVEYING N5**

15 November 2022

This marking guideline consists of 5 pages.

SECTION A**QUESTION 1**

- 1.1 True
- 1.2 True
- 1.3 True
- 1.4 True
- 1.5 False
- 1.6 False
- 1.7 True
- 1.8 False
- 1.9 True
- 1.10 True

(10 × 1) [10]

QUESTION 2

- 2.1 F
- 2.2 D
- 2.3 G
- 2.4 I
- 2.5 A
- 2.6 B
- 2.7 C
- 2.8 H
- 2.9 K
- 2.10 J

(10 × 2) [20]

QUESTION 3

- 3.1 Rotate
- 3.2 Tighten
- 3.3 Rotate
- 3.4 Cross hair
- 3.5 215° 37' 20"
- 3.6 Loosen

(6 × 2) [12]

TOTAL SECTION A: 42

SECTION B**QUESTION 4**

- 4.1 4.1.1
 - The observer at rod A directs the assistant holding rod C in line between A and D. ✓
 - Rod C is moved from positions C_1 and C_2 . ✓ The observer at rod B directs the assistant holding rod D in line between B and C. ✓
 - Rod D is moved from positions D_1 and D_2 . ✓
 - The process will continue until ranging rods A, B, C and D are in line with each other. ✓ (5)
- 4.1.2
 - From point C, set CE perpendicular to AC ✓ and measure distance CE. ✓
 - From point D, set off DF perpendicular to DB ✓ and measure distance DF equal to CE. ✓
 - By measuring EF, we find distance CD. ✓ (5)
- 4.3
 - Three people are required: a follower, a leader and an observer. ✓
 - The follower keeps the end of the tape at A ✓ and lines up with the leader, who keeps the other end of the tape at a suitable distance at B. ✓
 - The observer lines the tape horizontally and once horizontal, drops a plumb bob ✓ from B to B_1 on the ground. ✓
 - The observer will note the measurement in his/her book. ✓
 - The follower then moves the tape end to B ✓ and lines up with the leader who, from the observed horizontal tape, drops a plumb bob ✓ from C to C_1 on the ground. ✓
 - The process is repeated until the required distance is obtained. ✓ (11)

[21]