



**higher education
& training**

Department:
Higher Education and Training
REPUBLIC OF SOUTH AFRICA

MARKING GUIDELINE

NATIONAL CERTIFICATE ENGINEERING DRAWING N3

18 JULY 2018

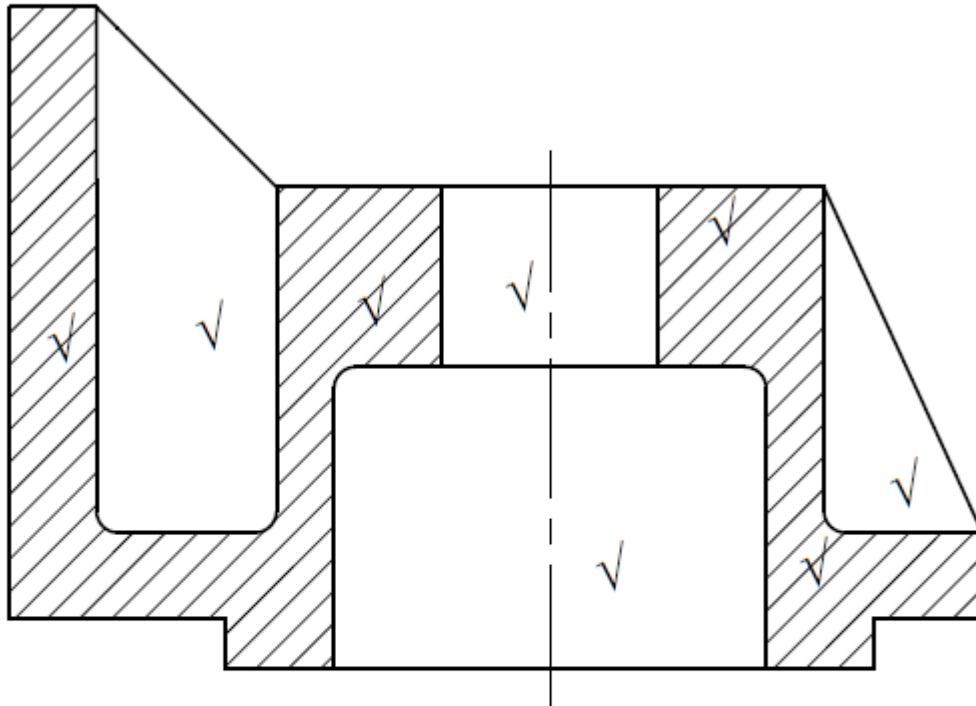
This marking guideline consists of 11 pages.

NOTE: ✓ = 1 MARK
 √ = ½ MARK

INSTRUCTIONS AND INFORMATION

Copying and scanning of drawings will affect the accuracy of the drawings on the marking guideline.

ALL markers are requested to prepare their own marking guideline to use during the marking of the candidates' answer sheets.

QUESTION 1: FREEHAND DRAWING**1**

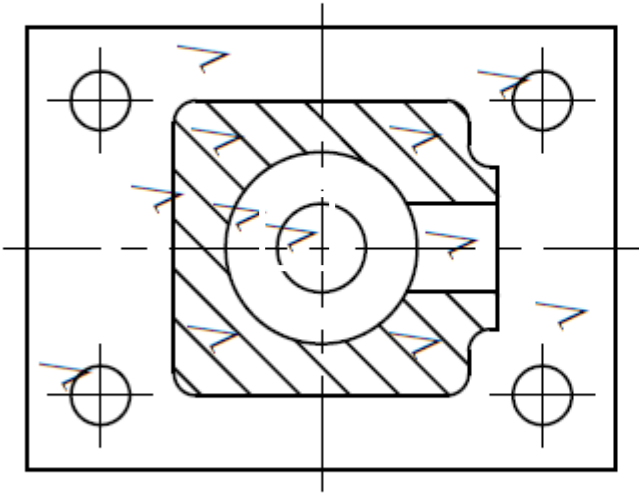
MARK ALLOCATION	
CORRECTNESS	4%
LINEWORK	3%
ACCURACY & PROPORTION	3%
TOTAL	10%

MARK ALLOCATION FOR CORRECTNESS – QUESTION 1

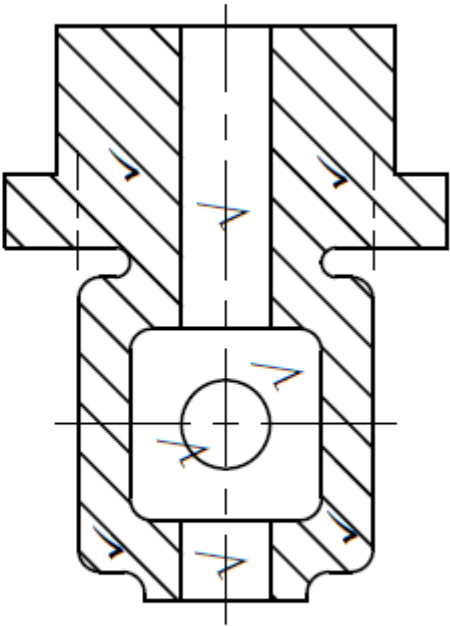
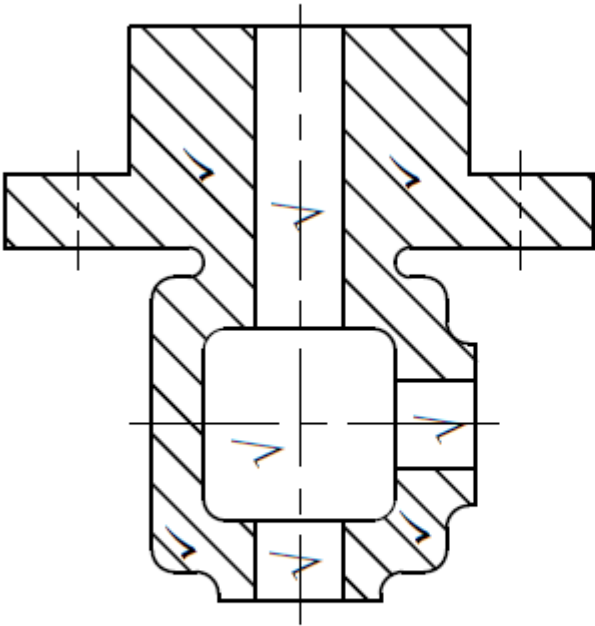
½ mark for each of the areas indicated on the marking guideline

4 marks

QUESTION 2: SECTIONAL DRAWING



MARK ALLOCATION	6%
CORRECTNESS:	6%
FSFV	6%
FSTV	3%
FSLV	3%
LINEWORK	1%
ACCURACY	25%
LAYOUT & NEATNESS	
TOTAL	



MARK ALLOCATION FOR CORRECTNESS – QUESTION 2**FSTV**

- 4 marks for correct sectioning
 ½ mark for each hole not sectioned

4 marks
 2 marks

TOTAL

6 marks

FSFV

- 4 marks for correct sectioning
 ½ mark for each hole not sectioned

4 marks
 2 marks

TOTAL

6 marks

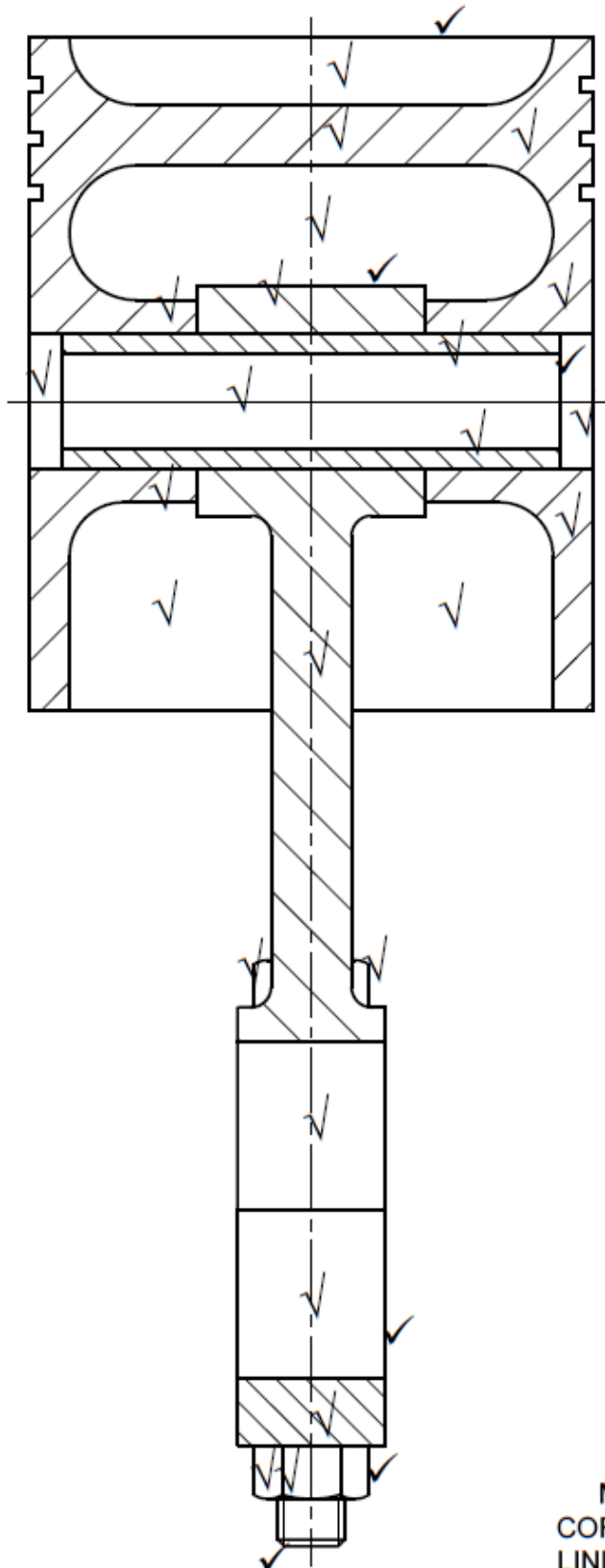
FSTV

- 2 marks for correct sectioning
 ½ mark for the Ø12 hole not sectioned
 ½ mark for the Ø26 circle
 ½ mark for the Ø12 circle
 ½ mark for drawing the square portion in the centre
 1 mark for “flange” not sectioned
 1 mark for the 4 x Ø8 holes in the “flange”

2 marks
 ½ mark
 ½ mark
 ½ mark
 ½ mark
 1 mark
 1 mark

TOTAL

6 marks

QUESTION 3: ASSEMBLY DRAWING**3**

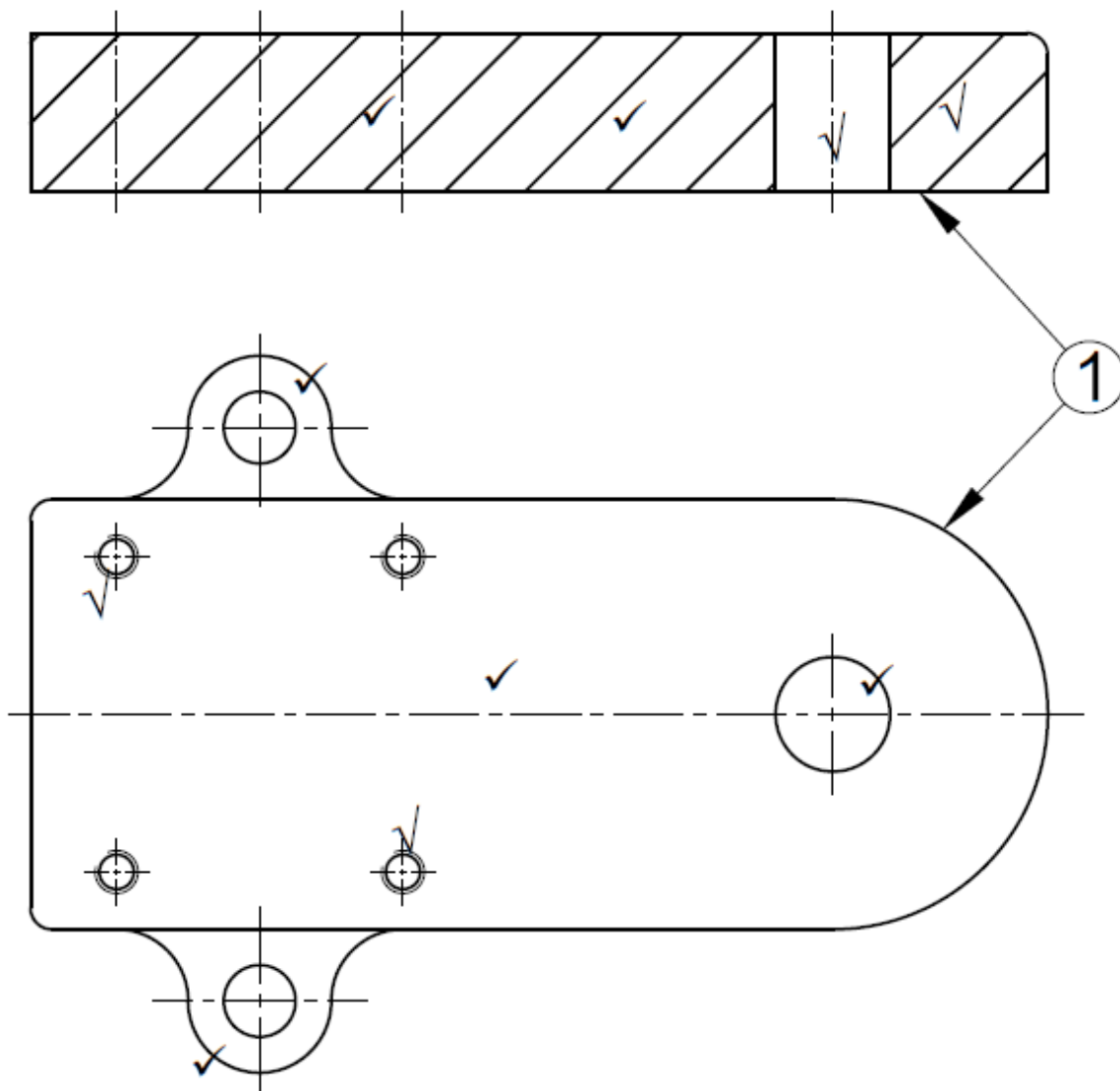
MARK ALLOCATION	
CORRECTNESS	18%
LINEWORK	5%
ACCURACY	5%
LAYOUT & NEATNESS	2%
TOTAL	30%

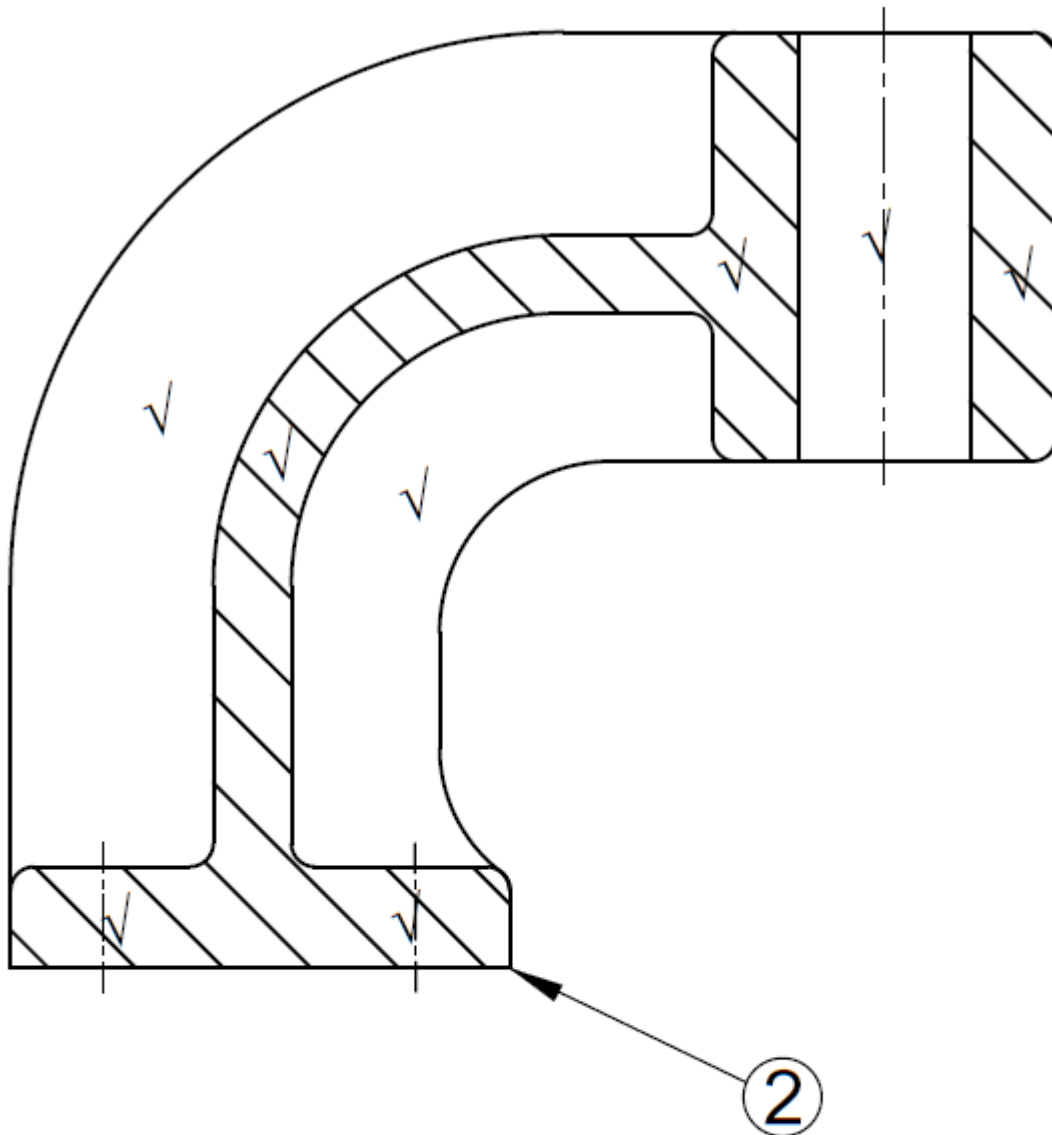
MARK ALLOCATION FOR CORRECTNESS – QUESTION 3

mark for each of items 1 to 6 correctly assembled	6 marks
Item 1	
3 marks for correct sectioning	3 marks
½ mark for each of the 4 portions not sectioned	2 marks
Item 2	
1 mark for correct sectioning	1 mark
½ mark for not sectioning the “bearing” portion of Item 2	½ mark
Item 3	
½ mark for correct sectioning	½ mark
½ mark for not sectioning the “bearing” portion of big end	½ mark
Item 4	
1 mark for correct sectioning	1 mark
½ mark for not sectioning the hole	½ mark
½ mark each gap on the ends of Item 4	1 mark
Item 5	
1 mark for the visible portion of the bolt head	1 mark
Item 6	
1 mark for correctly drawing the nut	1 mark

TOTAL

18 marks

QUESTION 4: DETAILED DRAWING**4**



MARK ALLOCATION

CORRECTNESS:

FSFV (ITEM 1)	3%
TV (ITEM 1)	5%
FSFV (ITEM 2)	4%
LINework	3%
ACCURACY	3%
LAYOUT & NEATNESS	2%
TOTAL	20%

MARK ALLOCATION FOR CORRECTNESS – QUESTION 4**FSFV (ITEM 1)**

2½ marks for correct sectioning
 ½ mark for not sectioning the hole

2½ marks
 ½ marks

TOTAL **3 marks**

TV (ITEM 1)

1 mark for not sectioning the flange
 1 mark for the Ø16 hole
 1 mark for 4 tapped holes
 1 mark for each “lobe” with the hole

1 mark
 1 mark
 1 mark
 2 marks

TOTAL **5 marks**

FSTFV (ITEM 2)

2½ marks for correct sectioning
 ½ mark for not sectioning the Ø22 hole
 ½ mark for each web not sectioned

2½ marks
 ½ mark
 1 mark

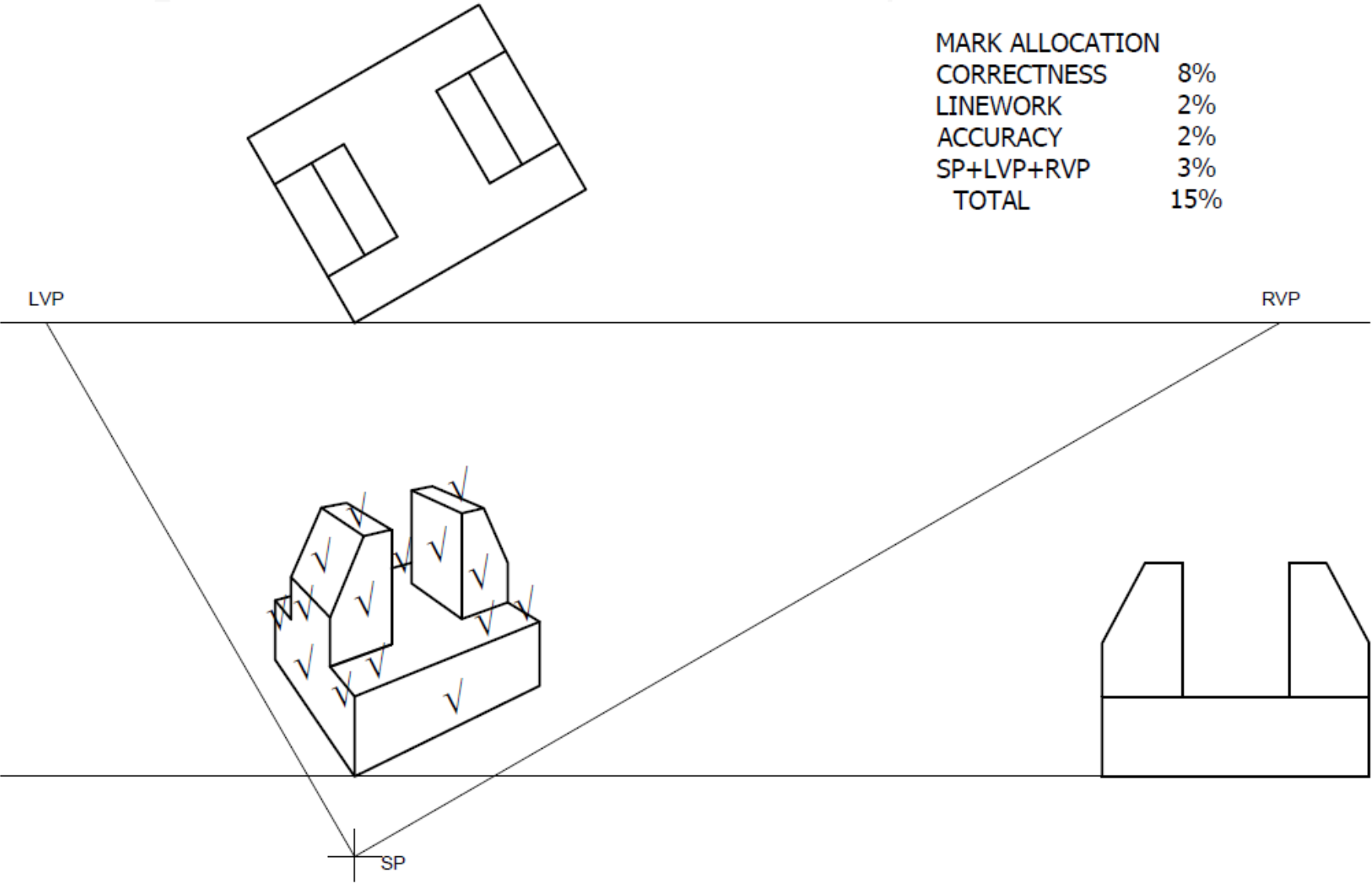
TOTAL **4 marks**

MARK ALLOCATION FOR CORRECTNESS – QUESTION 5

½ mark for each of the areas indicated on the marking guideline **8 marks**

QUESTION 5: PERSPECTIVE DRAWING

MARK ALLOCATION	
CORRECTNESS	8%
LINEWORK	2%
ACCURACY	2%
SP+LVP+RVP	3%
TOTAL	15%



TOTAL: 100