

## basic education

Department:
Basic Education
REPUBLIC OF SOUTH AFRICA

## NATIONAL SENIOR CERTIFICATE

**GRADE 12** 

**ENGINEERING GRAPHICS AND DESIGN P2** 

**FEBRUARY/MARCH 2015** 

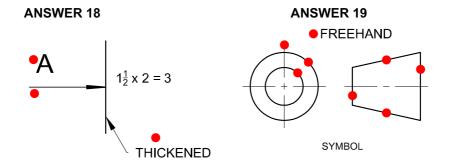
**MEMORANDUM** 

**MARKS: 100** 

This memorandum consists of 6 pages.

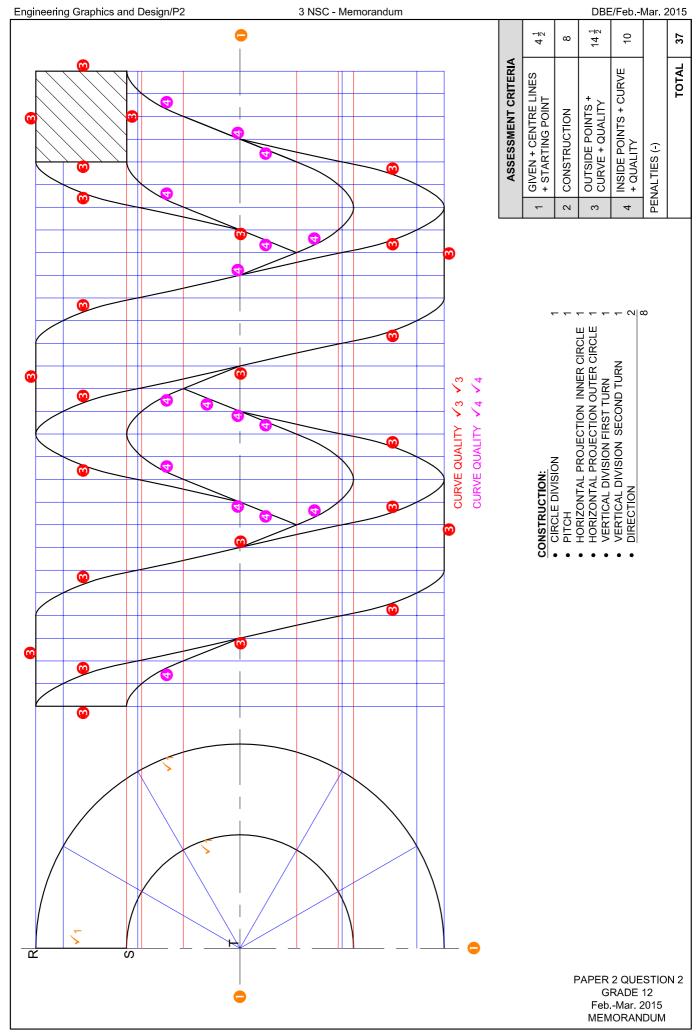
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ANSWERS				
1	2014-03-03		1	
2	BOX AND GLAND		1	
3	SCALE 1:2		1	
4	RUBBER		1	
5	2014-02-03		1	
6	BG-15/4		1	
7	RIGHT VIEW		1	
8	HALF SECTION		1	
9	WASHER		1	
10	STUD		1	
11	SPOTFACE		1	
12	S-BREAK		1	
13	7		1	
14	A - 100	B - Ø12	2	
15	C - 21 - 3 = 18	D - 64 + (32-8) = 88	4	
16	160.25		2	
17	159.7		2	
18			3	
19			4	
		TOTAL	30	

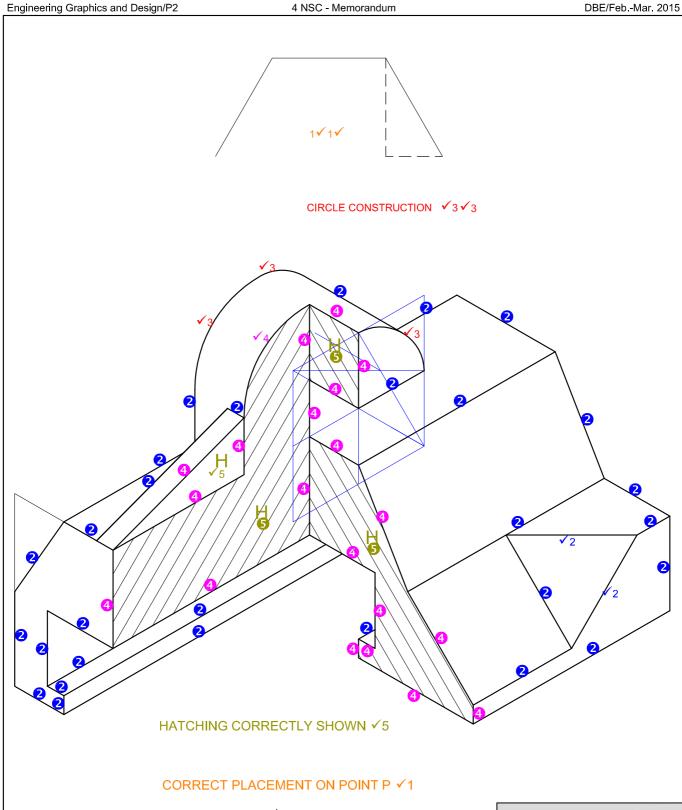


PAPER 2 QUESTION 1 GRADE 12 Feb.-Mar. 2015 MEMORANDUM

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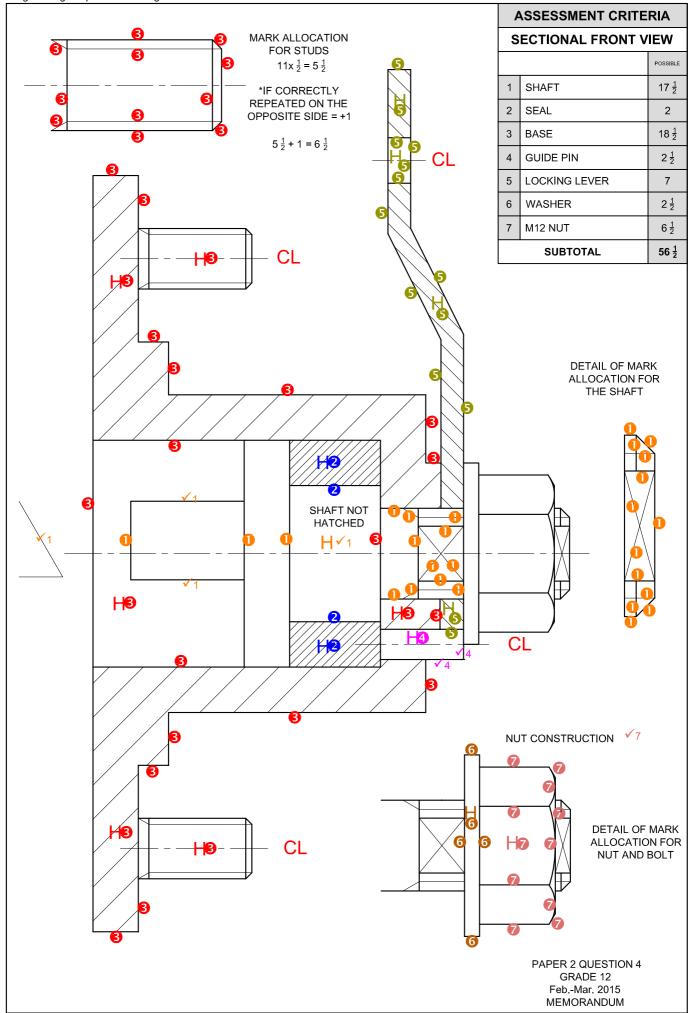




PAPER 2 QUESTION 3 GRADE 12 Feb.-Mar. 2015 MEMORANDUM

	ASSESSMENT CRITERIA				
1	AUX. VIEW + PLACING	3			
2	ISOMETRIC + NON-ISOMETRIC LINES	16½			
3	ISOMETRIC CIRCLES + CIRCLE CONSTRUCTION.	5			
4	SECTIONED SURFACES	11			
5	HATCHING	$3\frac{1}{2}$			
PENALTIES (-)					
	TOTAL 39				

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MARK ALLOCATION FOR CENTRE LINES  $(8 \times \frac{1}{2} = 4)$ 

> PAPER 2 QUESTION 4 GRADE 12 Feb.-Mar. 2015 MEMORANDUM