



higher education & training

Department:
Higher Education and Training
REPUBLIC OF SOUTH AFRICA

MARKING GUIDELINE

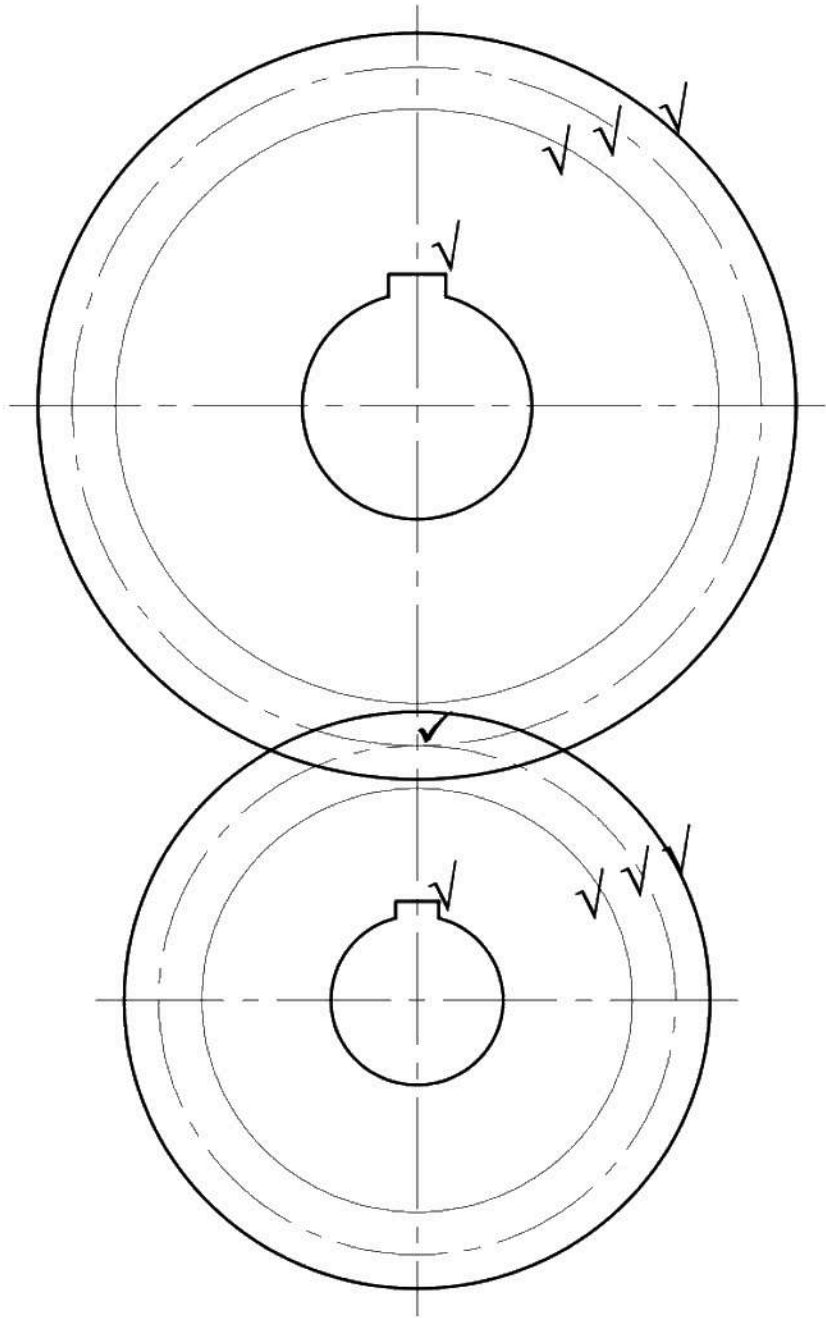
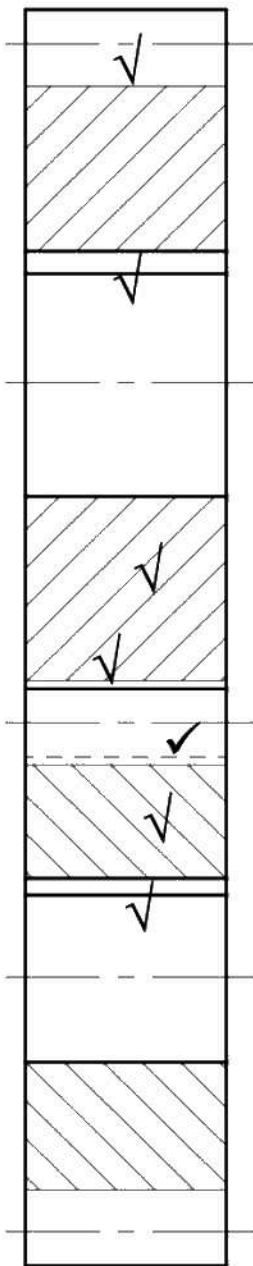
**NATIONAL CERTIFICATE: MULTI-DISCIPLINARY DRAWING
OFFICE PRACTICE**

MECHANICAL DRAUGHTING

23 March 2026

This marking guideline consists of 7 pages.

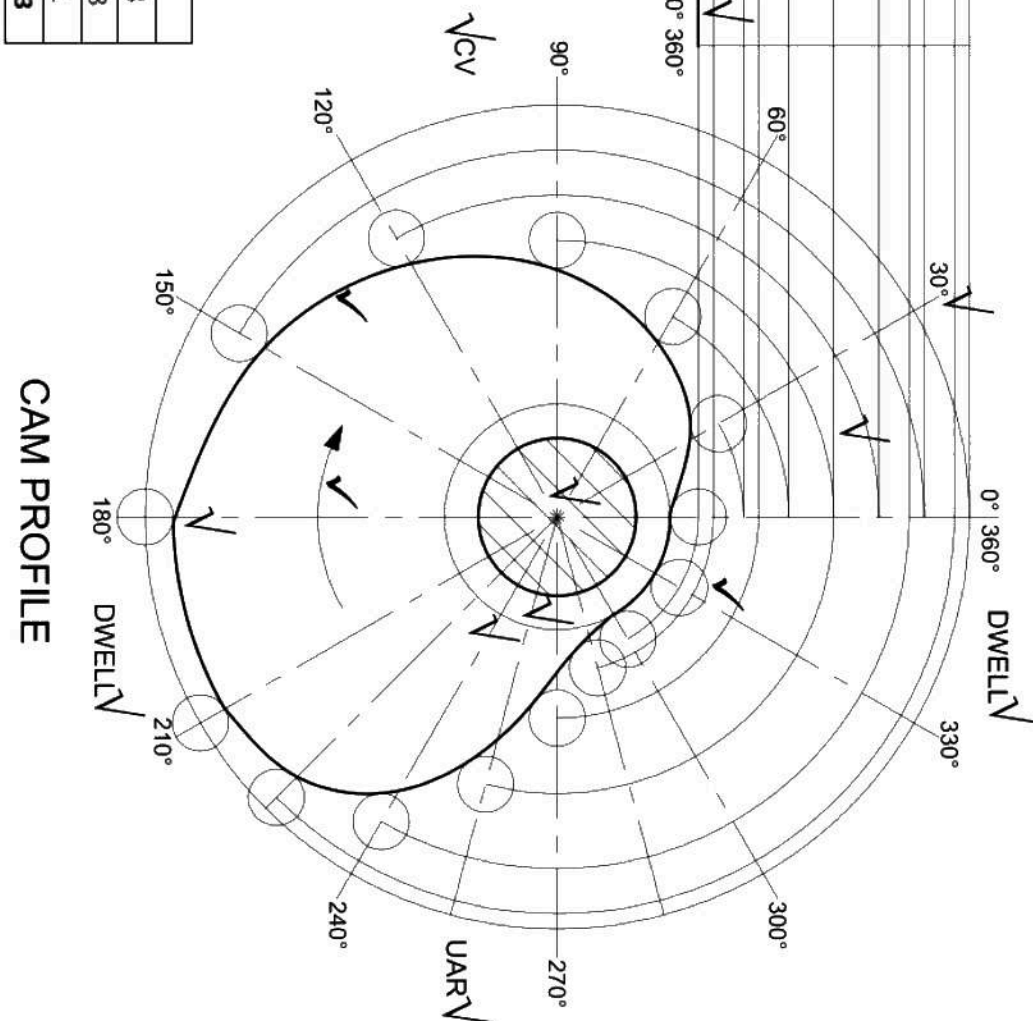
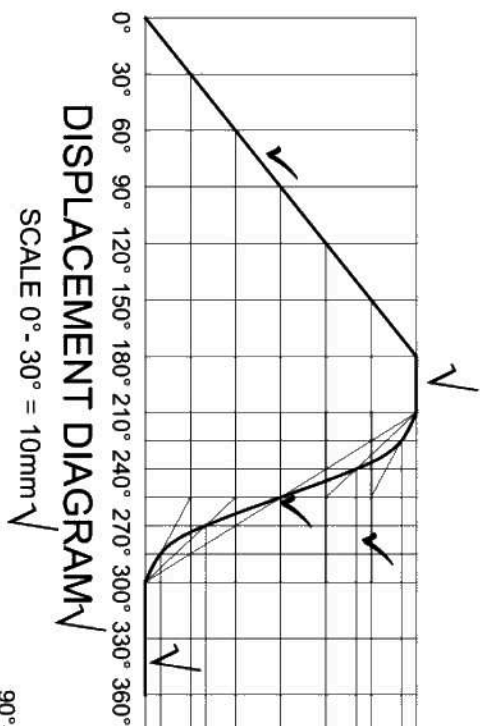
QUESTION 1: SPUR GEARS



GEAR AND PINION IN MESH✓
SCALE 1:1✓

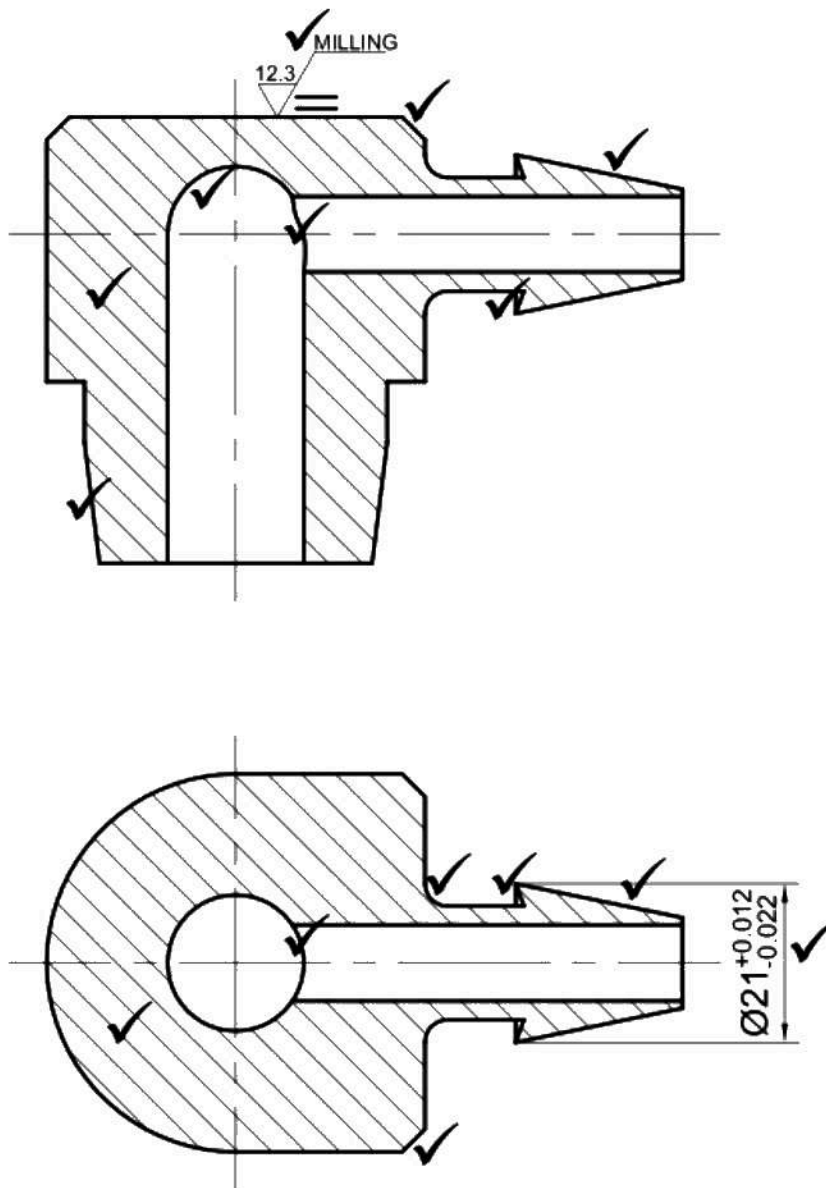
MARK ALLOCATION		
	FV	LV
Correctness	4	5
Title and Scale	1	
Linework	1	
Accuracy	1	
Total	12	

QUESTION 2: DISC CAM

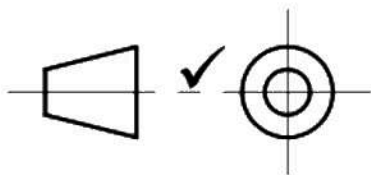


MARK ALLOCATION	
Displacement Diagram	4
Cam Profile	8
Title and scale	1
Total	13

QUESTION 3: SECTIONAL DRAWING



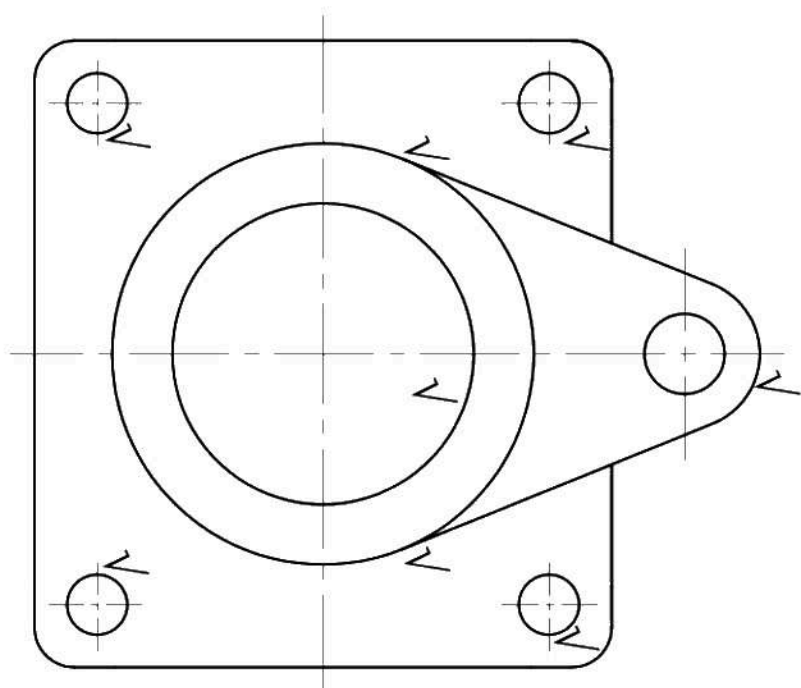
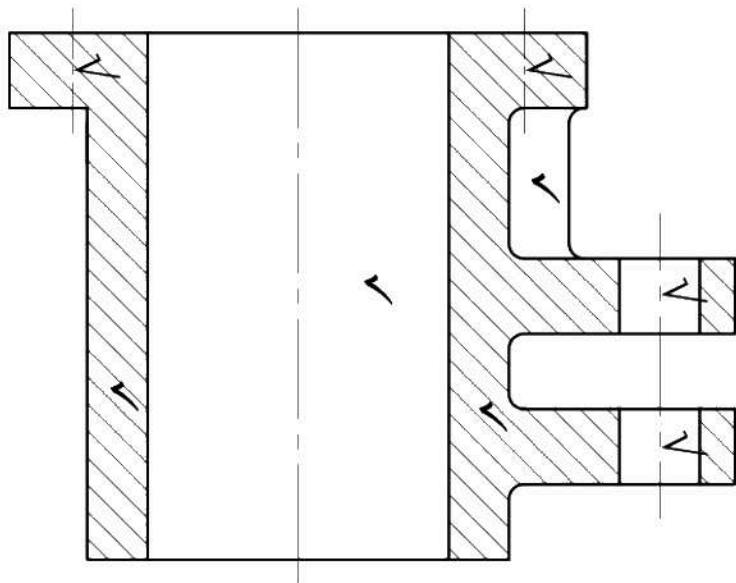
FUEL COUPLER ✓
SCALE 1:1 ✓



MARK ALLOCATION		
	FV	TV
Correctness	7	6
Accuracy	1	2
Title and scale	1	
Projection symbol	1	
Dimensions	2	
Total	20	

QUESTION 4: DETAIL DRAWING

4.1

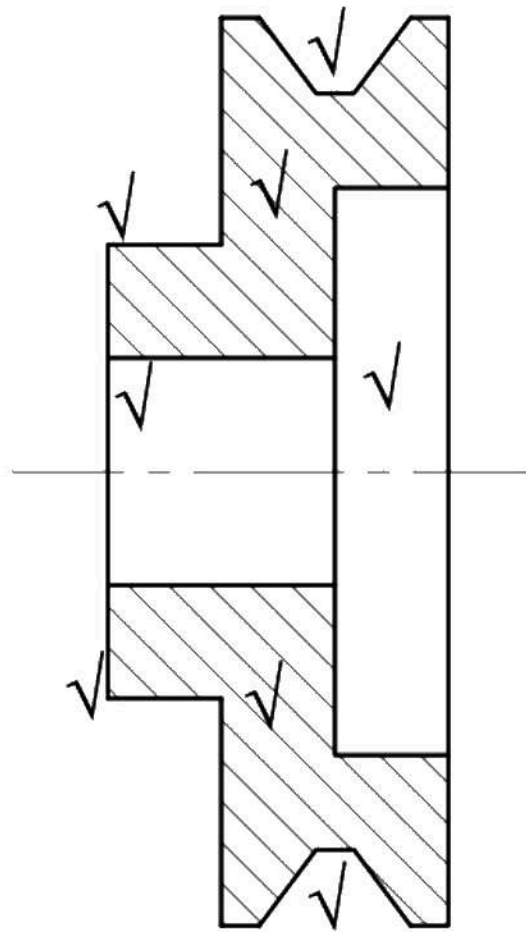


CARRIER (ITEM 1) ✓
SCALE 1:1 ✓

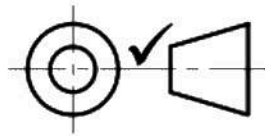


MARK ALLOCATION			
	FV	RV	
Correctness	6	6	4
Accuracy	1	1	2
Linework	1	1	1
Title and Scale		1	
Projection symbol		1	
Total		17	

4.2



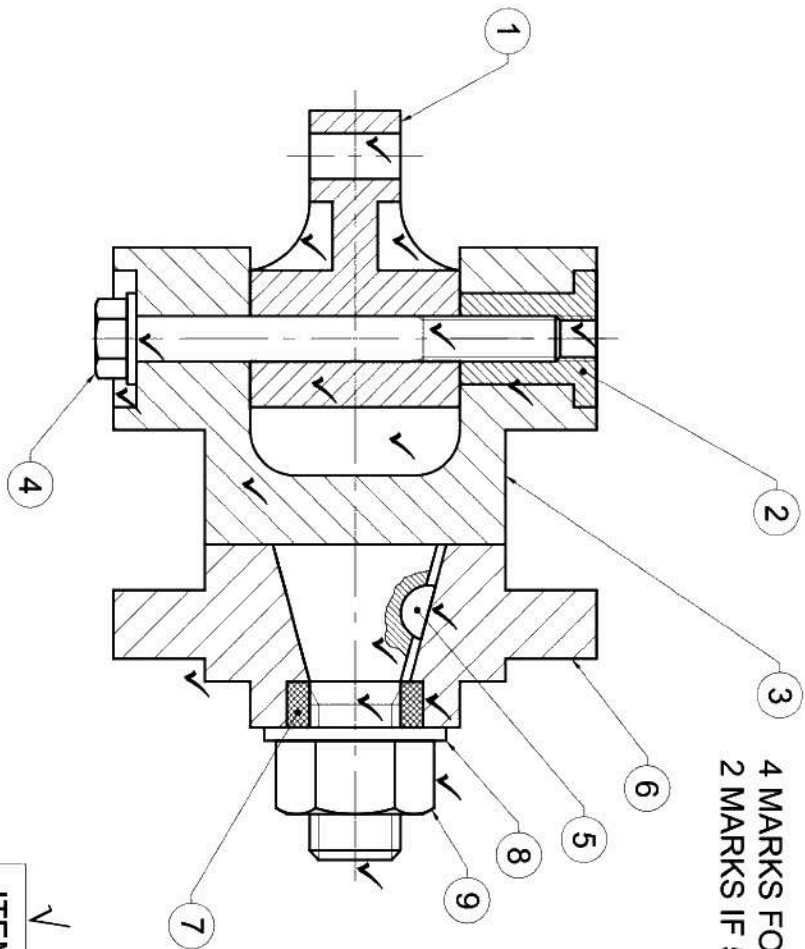
PULLEY (ITEM 2)✓
SCALE 1:1✓



MARK ALLOCATION	
Correctness	4
Accuracy	1
Linework	1
Title and Scale	2
Total	8

[25]

QUESTION 5: ASSEMBLY DRAWING



4 MARKS FOR ALL ITEM NUMBERS
2 MARKS IF 5 OR LESS ARE GIVEN

MARK ALLOCATION	
Correctness	18
Accuracy	2
Linework	2
Projection Symbol	1
Title and scale	1
Item numbers	4
Parts list	2
Total	30

ITEM	NAME	QTY	MATERIAL	REMARKS
ITEM 1	BRACKET	1 OFF	MILD STEEL	
ITEM 2	BUSH	1 OFF	BRONZE	
ITEM 3	COUPLING	1 OFF	MILD STEEL	
ITEM 4	M10 BOLT & WASHER	1 OFF	STEEL	
ITEM 5	WOODRUFF KEY	1 OFF	MILD STEEL	
ITEM 6	FLANGE	1 OFF	MILD STEEL	
ITEM 7	SEAL	1 OFF	RUBBER	
ITEM 8	WASHER	1 OFF	STEEL	
ITEM 9	M20 HEX NUT	1 OFF	STEEL	

[30]

TOTAL: