higher education & training

Department:
Higher Education and Training
REPUBLIC OF SOUTH AFRICA

MARKING GUIDELINE

NATIONAL CERTIFICATE (VOCATIONAL)

DRAWING OFFICE PROCEDURES AND TECHNIQUES

(Second paper)

NQF LEVEL 4

27 November 2024

This marking guideline consists of 8 pages.

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QUESTION 1: 3D MODELING WORKSPACE

1.1 3D modelling workspace refers to the digital environment or interface within 3D modeling software✓ where users create,✓edit and manipulate✓ 3D objects and scenes.✓

Examples:

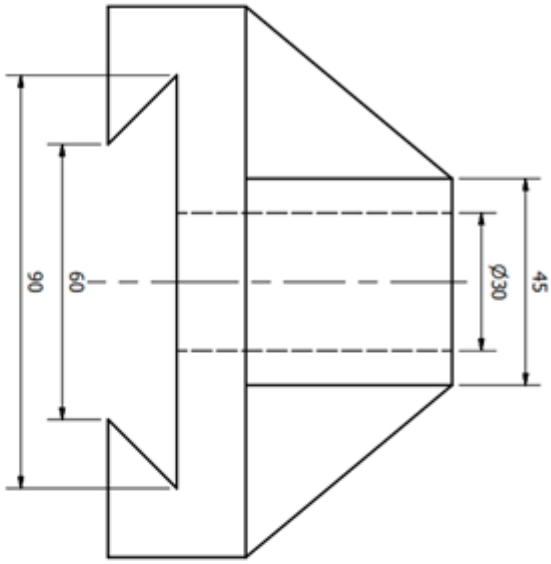
- Entertainment and Media. ✓
- Architecture and Engineering. ✓
- Product Design and Manufacturing. ✓
- Medical and Scientific Visualization. ✓
- Education and Training. ✓
- Simulations and Training.✓ 6 × 1 mark for each example + 4 marks = (10)

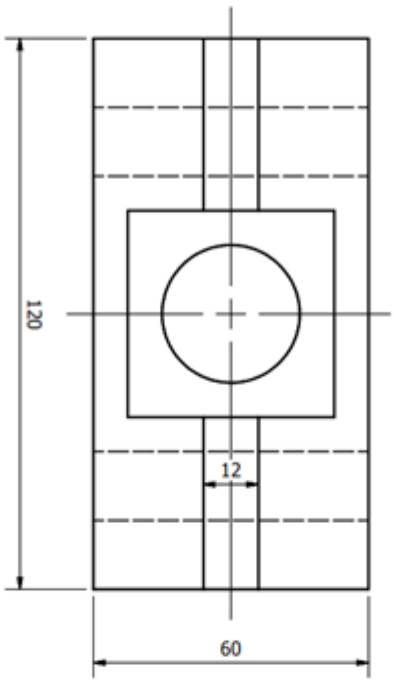
1.2
- Viewpoint. ✓
- Toolbars and Menus. ✓
- Property Editor. ✓
- 3D Grid and Axis. ✓
- Camera Controls✓. (5)

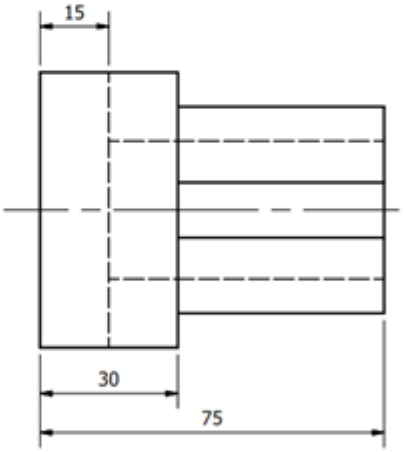
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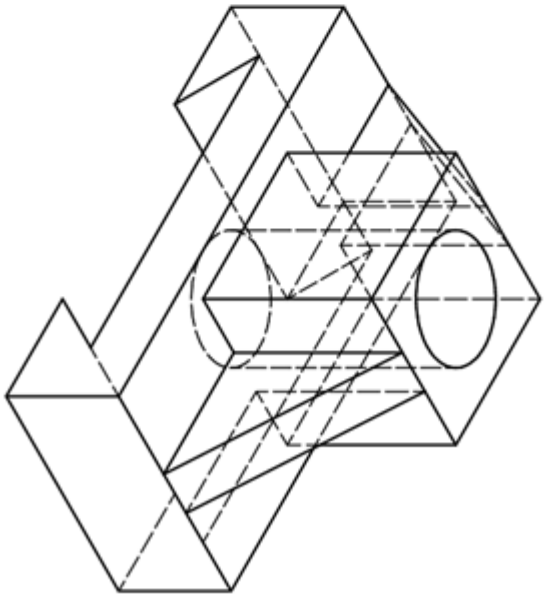
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QUESTION 2:





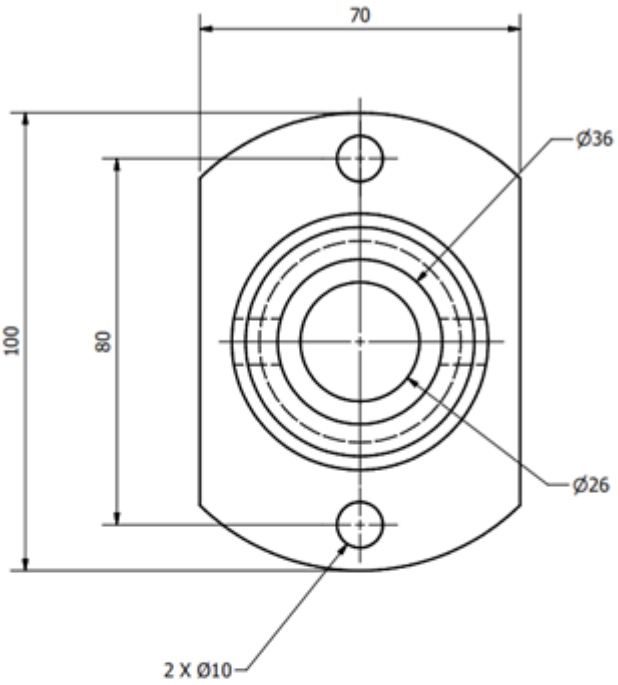


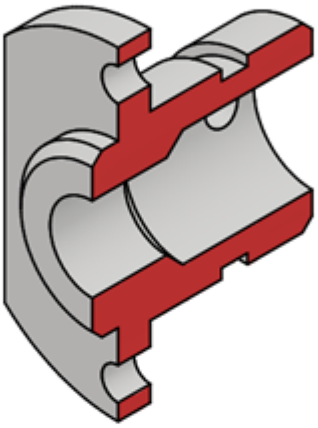


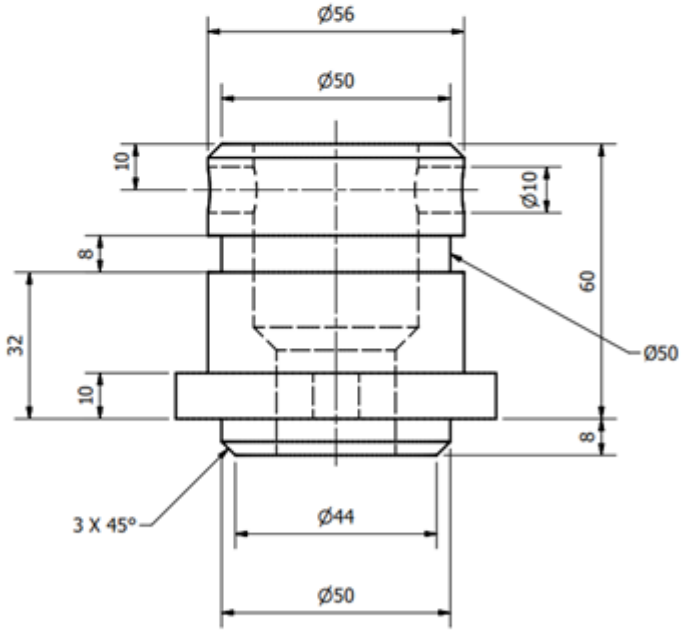
Question 2	**2.1**	**2.2**	**2.3**	**2.4**		
Correctness and Layout Front view	3					
Correctness and Layout Left view	3					
Correctness and Layout Top view	3					
Linework and Neatness			1			
Scale1:1			1			
3D Drawing			5			
Dimensions		6				
Title bar with information				1		
Correct plot			2			
Total	**9**	**6**	**9**	**1**		**[25]**

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QUESTION 3:


70
Ø36
100
80
Ø26
2 X Ø10

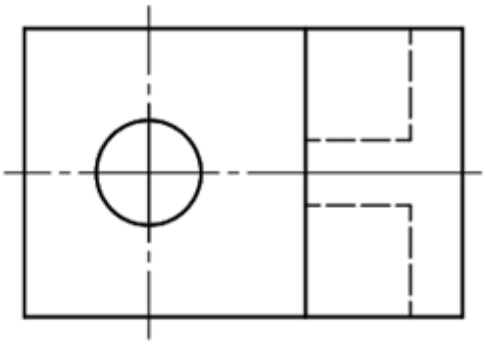


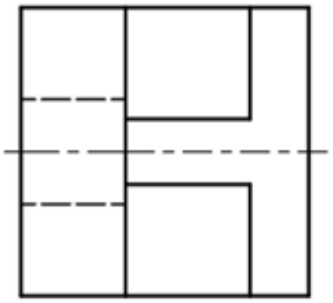

Ø56
Ø50
10
Ø10
8
60
32
Ø50
10
8
3 X 45°
Ø44
Ø50

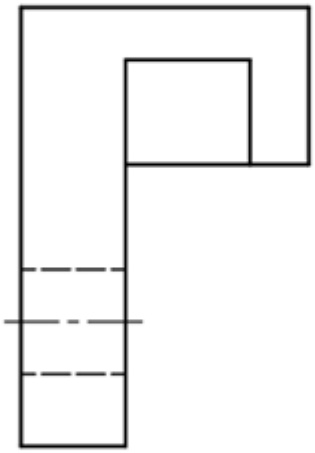
Question 3	**3.1**	**3.2**	**3.3**	**3.4**	**3.5**		
Correctness and Layout Front view	5						
Correctness and Layout Left view	5						
Linework and Neatness		1					
Scale 1:1		1					
Rendering - Section		10					
Dimensions			5				
Orthographic Projection System Symbol							
Title bar with information				1			
Correct plot			1		1		
Total	**10**	**12**	**6**	**1**	**1**		**[30]**

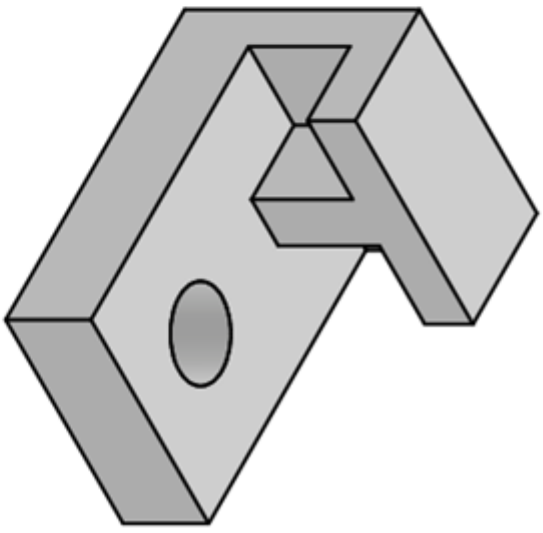
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QUESTION 4:









Question 4	**4.1**	**4.2**	**4.3**	**4.4**	**4.5**	**4.6**		
Correctness and Layout Front view	3							
Correctness and Layout Left view		3						
Correctness and Layout Top view			3					
Linework and Neatness	1	1	1					
3D Model				8				
Lighting and Rendering					8			
Title bar with information						1		
Correct plot						1		
Total	**4**	**4**	**4**	**8**	**8**	**2**		**[30]**

TOTAL: 100

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