

071606T4AUT

AUTOBODY TECHNOLOGY LEVEL 6

ENG/OS/ABT/CC/04/6/A

PERFORM COMPUTER AIDED DRAWING

July/Aug 2023



**TVET CURRICULUM DEVELOPMENT, ASSESSMENT AND CERTIFICATION
COUNCIL**

L ASSESSMENT

ASSESSOR'S GUID

INSTRUCTIONS TO THE ASSESSOR

1. You are required to mark the practical as the candidate performs their tasks.
2. Ensure the candidate has name tag and registration code at the back and front.
3. You are required to take video clips at critical points of the practical assessment.

The trainee is required to perform the following tasks:

- i) Set the layer properties manager as shown in Table 1 and use the set up to draw the cross-sectional profile of a V-slot shown in **Figure 1**.
- ii) Draw in first angle projection the following views of **Figure 2**.
 - a. Front elevation in the direction of arrow A.
 - b. End elevation
 - c. Plan
 - Include hidden details and six major dimensions
- iii) 3D model the part in **Figure 3** and use viewports to extract **SW Isometric** view and a **conceptual** visual style.

Turn over

Observation Checklist

Candidate's Name & Registration No.	
Assessor's Name & Reg. code	
Unit of Competency	Perform Computer Aided Drawing
Venue of Assessment	
Date of Assessment	

<u>TASK 1</u>			
Items to be evaluated: <i>Please award marks as appropriate. Give a brief comment on your observation.</i>	Marks awarded	Marks obtained	Comments
1. Successfully launched the CAD software and was able to navigate to the main menu. (Award 1 mark or zero)	1		
2. Identified and applied the basic feat software. • Creating the folder as required, • Creating a new document, • Saving the document in the folder. (Award 1 mark for each safety aspect considered)	3		
3. Set the layer properties manager as shown in Table 1 (Award ½ mark for each correct element set as per table)	6		
4. Identified the features used for developing the 2D sketch of the cross-sectional profile of the V-slot • Object creation tools: line, arc, circle • Object modifying tools: copy, mirror, array (Award 1 mark for each)	2		
5. Correctly drew the sketch of the cross-sectional profile of the V-slot. (Award 10 marks for correctly drawn sketch)	10		

<u>TASK 1</u>			
Items to be evaluated: <i>Please award marks as appropriate. Give a brief comment on your observation.</i>	Marks awarded	Marks obtained	Comments
6. Saved the document in the correct project file and on the CD-RW provided (Award 1 mark or zero)	1		
7. Printed the saved work on A4 paper (Award 1 mark for printing and 1 mark for good scale used, total 2 Marks)	2		
TASK 1 TOTAL	25		

Items to be evaluated: <i>Please award marks as appropriate. Give a brief comment on your observation.</i>	Marks awarded	Marks obtained	Comments
1. Identified and applied the basic features of the software. • Creating a new document, • Saving the document in the folder. (Award 1 mark for each)	2		
2. Identified the features used for developing the 2D first angle projection views. • Object creation tools: line, arc, circle • Object modifying tools: copy, mirror, array (Award 1 mark for each)	2		
3. Drew the sketches using circles, arcs, lines using the dimensions given: • Front elevation in the direction of arrow A • End elevation • Plan (Award 5 marks for each correct view)	15		

<u>TASK 2</u>			
Items to be evaluated: <i>Please award marks as appropriate. Give a brief comment on your observation.</i>	Marks awarded	Marks obtained	Comments
4. Included hidden details in the drawings <i>(Award 1 mark for each hidden feature correctly identified in each view)</i>	5		
5. Included six major dimensions in the drawings <i>(Award ½ mark for each correct dimension)</i>	3		
6. Saved the document in the correct project file and on the CD-RW provided <i>(Award 1 mark or zero)</i>	1		
7. Printed the saved work on A4 paper <i>(Award 1 mark for printing and 1 mark for good scale used, total 2 Mark)</i>	2		
TASK 2 TOTAL	30		

<u>TASK 3</u>			
Items to be evaluated: <i>Please award marks as appropriate. Give a brief comment on your observation.</i>	Marks awarded	Marks obtained	Comments
1. Identified and applied the basic features of the software • Creating a new document, • Saving the document in the folder. <i>(Award 1 mark for each)</i>	2		
2. Identified the features used for developing the 3D model part. • Switched workspace to 3D • Extrude / push pull to turn sketch to 3D. • Union / subtract to join the components <i>(Award 1 mark for each)</i>	3		

<u>TASK 3</u>			
Items to be evaluated: <i>Please award marks as appropriate. Give a brief comment on your observation.</i>	Marks awarded	Marks obtained	Comments
3. Correctly 3D modelled the part.	16		
4. Used viewports to extract a SW conceptual isometric view of the model (Award 1 mark viewport with correct orientation, 1 mark for conceptual visual style, total 2 marks)	2		
5. Saved the document in the correct project file and on the CD-RW provided (Award 1 mark or zero)	1		
6. Printed the saved work on A4 paper (Award 1 mark for printing)	1		
TASK 3 TOTAL	25		
TOTAL (TASK 1, 2 & 3	80		

The candidate was found to be: Competent ☐ Not yet competent ☐ (Please tick as appropriate) (The candidate is competent if he/she gets at least 50 %)		
Feedback from candidate:		
Feedback to candidate:		
Candidate's signature:	Date:	
Assessor's signature:	Date:	





