061306T4CSC

COMPUTER SCIENCE LEVEL 6

ICT/OS/CS/CR/01/6/A

Understand Computer Organisation and Architecture

March/April 2025

TVET CURRICULUM DEVELOPMENT, ASSESSMENT AND CERTIFICATION

COUNCIL (TVET CDACC)

PRACTICAL ASSESSMENT

INSTRUCTIONS TO ASSESSOR

1. Assess the candidate as the practical progresses observing the critical areas

2. You are required to mark the practical as the candidate perform the tasks

3. You are required to take video clips at critical points

4. Ensure the candidate has a name tag and registration code at the back and front

OBSERVATION CHECKLIST

Candidate's name & Registration No.			
Assessor's name & Id code			
Unit(s) of Competency	Understand Computer Organisation and Architecture		
Venue of Assessment			
Date of assessment			
Items to be evaluated: *Please award marks as appropriate. Give a brief comment on your observation.*	**Marks allocated**	**Marks obtained**	**Comments**
TASK 1: Inspect Computer Suitability for Video-Editing Software			
1. Wore personal protective equipment - *dustcoat* (Award 1 mark or zero)	**2**		

2. Recorded processor specifications correctly
   - Brand and model
   - Clock speed
   - Number of cores
   - Cache size
(Award ½ mark for each correct specification or zero)
	2		

3. Recorded storage specifications correctly
   - Type
   - Size
(Award 1 mark for each correct specification or zero)
	2		

4. Recorded Graphics Card specifications correctly
   - Model name
   - Manufacturer
   - VRAM
(Award 1 mark for each correct specification or zero)
	3		

5. Recorded operating system specifications correctly
   - System type
   - Name/version
 	
(Award 1 mark for each correct specification or zero)
	2		

6. Recorded display specifications correctly
   - Resolution
   - Refresh Rate
 	
(Award 1 mark for each correct specification or zero)
	2		

7. Recorded connectivity ports specifications correctly
   - Type
   - Version
   - purpose
	3		

(Award 1 mark for each correct specification or zero)			
8. Wrote proper recommendations as per requirements - Processor(CPU) - Storage Type and Capacity - Graphics Card(GPU) - Operating System - Display Specifications - Connectivity Ports - *(Award 1 mark for each correct recommendation or zero)*	6		
9. Recorded correct overall recommendation *(Award 3 marks for correct recommendation or zero)*	3		
Sub-Total 1	**25**		
TASK 2 : Recommend Suitable Hardware Specifications for a Student's Laptop			
10. Recorded suitable specifications for Memory (RAM) - Size- 4-8GB - Type – DDR4 or DDR5 *(Award 1 mark for each suitable specification or zero)*	2		
11. Gave suitable specifications for input components - Mouse - Wireless, 2.4 GHz or Bluetooth connectivity, compact and lightweight - Microphone – built-in, high sensitivity to clear sound capture - Video Cam – built-in, 60^0-90^0 field view *(Award 2 marks for each or zero)*	6		
12. Gave suitable specifications for output components - Monitor-13-15 inches for portability,1920 x 1080 Full HD display, at least 60Hz refresh rate - Keyboard-ergonomic, in-built *(Award 2 marks for each or zero)*	4		
13. Recorded suitable specifications for storage technologies components - HDD or SSD- A minimum of 500 HDD or minimum of 256 SSD *(Award 2 marks for each or zero)*	2		

14. Noted suitable specifications for processor - Clock Speed- 2.0-2.8 GHZ - Generation-5th Gen to 7th Gen - Number of cores- core i3-core i7, 4 and above cores ***(Award 1 mark for suitable specifications for or zero)***	3		
15. Provided valid reason for each recommendation for each component - Memory - Mouse - Microphone - Video Cam - Monitor - Keyboard - Storage - Processor ***(Award 1 mark for each component or zero)***	8		
Sub- Total 2	**25**		
GRAND TOTAL	**50**		

ASSESSMENT OUTCOME

The candidate was found to be: Competent [ ] Not yet Competent [ ] *(Please tick as appropriate)* *(The candidate is competent if the candidate obtains at least 50%)*	
Feedback from the Candidate:
Feedback to the Candidate:
Candidate Signature **Date:**	
Assessor's Signature **Date**	