061306T4CSC

COMPUTER SCIENCE LEVEL 6

ICT/OS/CS/CR/04/6/A

Understand Fundamentals of Programming

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	**Fundamentals of Computer Programming**
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: Develop a Parking Lot Management System			
1. Observed laboratory rules. *(Award 2 marks for each or zero)*	**2**		
2. Set maximum capacity of the parking lot - maximum capacity is 10 *(Award 2 marks for each or zero)*	**2**		
3. Set-up a basic menu interface. - 7 lines *(Award 1 mark for each line, or zero)*	**7**		
4. Implemented car entry functionality - checked availability of space -added a new car successfully *(Award 1 mark for each, or zero)*	2		
5. Displayed an appropriate message - Car added OR - Parking is full *(Award 2 marks or zero)*	**2**		
6. Implemented car exit functionality - checked availability of space -removed the car successfully *(Award 2 marks for each, or zero)*	4		
7. Displayed the current number of cars in the lot - display message *(Award 3 marks or zero)*	3		
8. Tested the system successfully - Added car in parking lot - Removed car	3		

- Displayed messages **(Award 3 marks or zero)**			
Sub Total 1	**25**		
Task 2: Build a Weather-Based Crop Recommendation System			
9. Declared three arrays to store readings for: - Temperature - Humidity - Rainfall **(Award 2 marks for each or zero)**	6		
10. Implemented user input function to enter the measurements for 15 days for; - Temperature - Humidity - Rainfall **(Award 2 marks for each or zero)**	6		
11. Calculated the average measurements correctly - Temperature - Humidity - Rainfall **(Award 2 marks for each or zero)**	6		
12. Implemented simple conditional logic to recommend crops based on weather trends **(Award 1 mark for each correct conditional** **statement or zero)**	4		
13. Provided a clear recommendation based on the average obtained **(Award 3 marks or zero)**	3		
Sub Total 2	**25**		
TOTAL (All Tasks)	**50**		

ASSESSMENT OUTCOME

The candidate was found to be:

Competent ☐   Not yet competent ☐

(Please tick as appropriate)

(The candidate is competent if s/he gets 50% or higher of the items of evaluation correct)

Feedback to candidate:

Feedback from candidate:

Candidate's Signature   **Date**

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Assesor's Signature   **Date**

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