

061306T4CPM

COMPUTER PROGRAMMING LEVEL 6

IT/OS/CP/CR/05/6/A

DESIGN ALGORITHMS AND DATA STRUCTURES

NOV/DEC 2023



**TVET CURRICULUM DEVELOPMENT, ASSESSMENT AND CERTIFICATION
COUNCIL (TVET CDACC)**

PRACTICAL ASSESSMENT

INSTRUCTIONS TO THE ASSESSOR

1. You are required to mark the practical as the candidate performs the task.
2. You are required to take video clips at critical points.
3. Ensure that the candidate has a name tag and a registration code at the back and front.
4. Allocate **10** minutes for the candidate to identify and confirm the availability of the resources.
5. Candidate to perform the **TWO** tasks as per the requirements of each.
6. Marks for each task are indicated.

Candidate's Name			
Candidate's Registration Code			
Assessor's Name			
Assessor's Registration Code			
Venue of Assessment			
Date of assessment			
<i>(Award mark(s) appropriately as guided for in the items for evaluation indicated. Give a brief comment where necessary)</i>			
Items to be evaluated:	Marks available	Marks obtained	Comments
TASK 1			
1. Launched C# IDE successfully <i>(Award 1 mark or zero)</i>	1		
2. Correctly added the class <i>(Award 1 mark or zero for each)</i>	2		
3. Declared necessary variables - Array - Target <i>(Award 1 mark for each or zero)</i>	2		
4. Correctly added the integers to the array. <i>(Award 2 marks or zero)</i>	2		
5. Correctly performed input of the number to search <i>(Award 2 marks or zero)</i>	2		
6. Implemented linear search algorithm - logic - selection - Looping <i>(Award 2marks for each or zero)</i>	6		
7. Correctly displayed output	1		

<i>(Award 2 marks or zero)</i>			
8. Followed Coding Standards & Best Practices. - Added comments - Naming conventions - Indentation - exception handling <i>(Award 1 mark for each or zero)</i>	4		
9. Executed the application correctly <i>(Award 5 marks or zero)</i>	5		
TOTAL	25		
TASK 2			
1. Created the class <i>(Award 1 mark or zero for each)</i>	2		
2. Declared necessary variables - Array - Array length <i>(Award 1 mark for each or zero)</i>	2		
3. Correctly added the integers to the array. <i>(Award 2 marks or zero)</i>	2		
4. Correctly added the function <i>(Award 2 marks or zero)</i>	2		
5. Implemented linear search algorithm - logic - selection - Looping - swapping <i>(Award 2marks for each or zero)</i>	8		
6. Correctly displayed output <i>(Award 2 marks or zero)</i>	2		

7. Followed Coding Standards & Best Practices. - Added comments - Naming conventions - Indentation - exception handling (Award 1 mark for each or zero)	4		
8. Executed the application correctly (Award 3 marks or zero)	3		
TOTAL	25		
TOTAL (all Tasks)	50		
ASSESSMENT OUTCOME			
<p>The candidate was found to be:</p> <p style="text-align: center;">Competent <input type="checkbox"/> Not yet competent <input type="checkbox"/></p> <p><i>(Please tick as appropriate)</i></p> <p><i>(The candidate is competent if s/he gets 50% or higher of the items of evaluation correct)</i></p>			
Feedback from candidate:			
Feedback to candidate:			
Candidate's Signature		Date	
-----		-----	
Assessor's/ verifier's signature		Date	
-----		-----	