

061306T4CSC

COMPUTER SCIENCE LEVEL 6

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

UNDERSTAND FUNDAMENTALS OF PROGRAMMING

NOV/DEC 2023



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

ASSESSOR'S OBSERVATION CHECKLIST

INSTRUCTIONS TO THE ASSESSOR

1. You are required to mark the practical as the candidate performs the tasks.
2. You are required to take video clips at critical points.
3. Ensure the candidate has a name tag and 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.

OBSERVATION CHECKLIST

| | | | |
|--|------------------------|-----------------------|-----------------|
| Candidate's Name | | | |
| Candidate's Registration Code | | | |
| Assessor's Name | | | |
| Assessor's Registration Code | | | |
| Unit(s) of Competency | | | |
| Venue of Assessment | | | |
| Date of assessment | | | |
| <i>(Indicate the marks available and marks obtained respectively. Award marks appropriately as guided for in the items for evaluation indicated. Give a brief comment where necessary)</i> | | | |
| Items to be evaluated: | Marks allocated | Marks obtained | Comments |
| TASK 1: Install and configure the JAVA environment | | | |
| 1. Run the JAVA Installer <i>(Award 1 Mark, or 0)</i> | 1 | | |
| 2. Follow the Installation Wizard correctly <i>(Award 2 Marks, or 0)</i> | 2 | | |
| 3. Set Environment Variables: | | | |
| i. Successfully added the JAVA_HOME variable <i>(Award 3 Marks, or 0)</i> | 3 | | |
| ii. Successfully created the system path variable <i>(Award 3 Marks, or 0)</i> | 3 | | |
| 4. Test the Compiler <i>(Award 1 Mark, or 0)</i> | 1 | | |
| TOTAL | 10 | | |
| TASK 2: Java program for a simple calculator | | | |
| 1. Successfully created a Java program <i>(Award 2 Marks, or 0)</i> | 2 | | |

| | | | |
|--|-----------|--|--|
| 2. Successfully implemented FOUR functions (addition, subtraction, multiplication, and division) <i>(Award 3 Marks for each function or zero)</i> | 12 | | |
| 3. The program successfully prompted the user to enter the two numbers <i>(Award 6 marks for successfully prompting the user or zero)</i> | 6 | | |
| 4. The program successfully prompted the user to choose an operation (addition, subtraction, multiplication, or division). <i>(Award 6 marks for successfully prompting the user or zero)</i> | 6 | | |
| 5. Successfully implemented the function call <i>(Award 6 marks for successful implementation of function call or zero)</i> | 6 | | |
| 6. The program successfully displayed the result of the calculation to the user based on all the operations (addition, subtraction, multiplication, or division) <i>(Award 2 Marks each for successfully displaying the results based on the four operations or zero)</i> | 8 | | |
| TOTAL | 40 | | |
| GRAND TOTAL | 50 | | |

ASSESSMENT OUTCOMES

The candidate was found to be:

Competent ☐ Not yet competent ☐

(Please tick as appropriate)

| | | |
|--|-------|--|
| <i>(The candidate is competent if s/he gets 50% or higher)</i> | | |
| Feedback from candidate: | | |
| Feedback to candidate: | | |
| Candidate's signature: | Date: | |
| Assessor's signature: | Date: | |