

ITECH6M24

DATABASE SYSTEMS

ITECH6M24

DB001

TERM 1 2026



MUKIRIA TECHNICAL TRAINING INSTITUTE
COMPUTING AND INFORMATICS DEPARTMENT

PRACTICAL ASSESSMENT

OBSERVATION CHECKLIST

CANDIDATE'S NAME & REGISTRATION CODE:	STUDENT MAINA (1234R)
ASSESSOR'S NAME & REGISTRATION CODE:	TRAINER
VENUE OF ASSESSMENT:	
DATE OF ASSESSMENT:	2026-02-14

Items to be Evaluated: Kindly award marks as appropriate. Give a brief comment on your observation.	Marks Available	Marks Obtained	Comments
©2025 TVET CDACC	2,025.00	0.00	
Page 1 of 7	1.00	1.00	
061006T4ICT	61,006.00	0.00	
ICT TECHNICIAN LEVEL 6	6.00	0.00	
IT/OS/ICT/CR/10/6/A	10.00	0.00	
IT/OS/ICT/CR/10/6/B	10.00	0.00	
Develop Computer Program July/August 2025	2,025.00	0.00	

Items to be Evaluated: Kindly award marks as appropriate. Give a brief comment on your observation.	Marks Available	Marks Obtained	Comments
TVET CURRICULUM DEVELOPMENT, ASSESSMENT AND CERTIFICATION COUNCIL PRACTICAL ASSESSMENT INSTRUCTIONS TO ASSESSOR 1. Assess the candidate as the practical progresses observing the critical areas	1.00	0.00	
2. You are required to mark the practical as the candidate perform the tasks	2.00	0.00	
3. You are required to take video clips at critical points	3.00	0.00	
4. Ensure the candidate has a name tag and registration code at the back and front	4.00	0.00	
OBSERVATION CHECKLIST Candidate's Name & Registration Code Assessors Name & Registration Code Venue of Assessment Date of Assessment easytvvet.com ©2025 TVET CDACC	2,025.00	0.00	
Page 2 of 7	2.00	0.00	
TASK 1: Develop a Java program for Global Trade Company to manage employee payroll.	1.00	0.00	
1. Set up the development environment	1.00	0.00	
• Identified appropriate programming language.	1.00	0.00	
• Opened correct compiler or IDE.	2.00	0.00	
2. Developed the program correctly declaring	2.00	0.00	
the variables. • Used appropriate data types for each of the six variables. (Award 1 marks for the appropriate data	1.00	0.00	
type =6 marks)	1.00	0.00	
• Accepted input for EmployeeID. (Award 2 marks or zero	2.00	0.00	
• Accepted input for Employee Name.	2.00	0.00	
• Accepted input for Basic Salary.	2.00	0.00	

Items to be Evaluated: Kindly award marks as appropriate. Give a brief comment on your observation.	Marks Available	Marks Obtained	Comments
• Accepted input for allowances.	2.00	0.00	
• Accepted input for deductions.	2.00	0.00	
• Defined constants for tax rate. .	1.00	0.00	
3. Accurately calculated the following	3.00	0.00	
easytvvet.com ©2025 TVET CDACC	2,025.00	0.00	
Page 3 of 7	3.00	0.00	
• Correctly calculated gross salary	2.00	0.00	
• Correctly calculated tax based on gross salary.	3.00	0.00	
• Computed net salary using formula;	3.00	0.00	
4. Compiling and executing the program.	4.00	0.00	
• Successfully compiled and executed the program (Award 1 mark for compiling and 1 mark	1.00	0.00	
for executing = $1*2 = 2$ marks)	1.00	0.00	
• Debugged the program.	4.00	0.00	
• Used test data for the program.	3.00	0.00	
• Code is neatly formatted and properly commented.	3.00	0.00	
5. Program executed correctly (Displays a	5.00	0.00	
formatted pay slip, with the following information. • Employee ID, Employee Name, Basic Salary, Allowances, Deductions, Tax Amount, Gross Salary, Net Salary	1.00	0.00	
easytvvet.com ©2025 TVET CDACC	2,025.00	0.00	
Page 4 of 7	4.00	0.00	
6. Save the program as PAYROLL in folder	6.00	0.00	

Items to be Evaluated: Kindly award marks as appropriate. Give a brief comment on your observation.	Marks Available	Marks Obtained	Comments
named "FirstName_Registration number". 7. The candidate observed the PPE's	7.00	0.00	
Sub-Total 1 50	1.00	0.00	
TASK 2: Develop an interactive C program to help a farmer calculate the total cost of milk	2.00	0.00	
production. 8. Set up the development environment;	8.00	0.00	
• Identified appropriate programming language. (Award 1	1.00	0.00	
• Opened correct compiler or IDE	2.00	0.00	
9. Developed the program correctly;	9.00	0.00	
• Program included the correct header	1.00	0.00	
• Used appropriate data types to declare five variables	1.00	0.00	
• Prompted the user to input number of cows.	2.00	0.00	
• Prompted the user to input average amount of milk per cow.	2.00	0.00	
• Prompted the user to input cost of 1	1.00	0.00	
easytvvet.com ©2025 TVET CDACC	2,025.00	0.00	
Page 5 of 7	5.00	0.00	
production per liter of milk	2.00	0.00	
• Calculated the total amount of milk produced per day correctly.	2.00	0.00	
• Calculated the total cost of milk production per day correctly.	2.00	0.00	
10. Compiling and executing the program.	10.00	0.00	
• Successfully compiled and executed the program (Award 1 mark for compiling and 1 mark	1.00	0.00	

Items to be Evaluated: Kindly award marks as appropriate. Give a brief comment on your observation.	Marks Available	Marks Obtained	Comments
for executing = $1 \times 2 = 2$ marks)	1.00	0.00	
• Debugged the program.	3.00	0.00	
• Used test data for the program.	3.00	0.00	
11. Program executed correctly displaying the	11.00	0.00	
total amount of milk produced per day and the total cost of milk production per day.	3.00	0.00	
12. Save the program as FARMERS in the	12.00	0.00	
“FirstName_Registration number” folder.	1.00	0.00	
Sub-Total 2 36	2.00	0.00	
TASK 3: Write a C program that allows a user to perform basic arithmetic operations.	3.00	0.00	
easytvvet.com ©2025 TVET CDACC	2,025.00	0.00	
Page 6 of 7	6.00	0.00	
• Defined correct data types (Award 1 mark for every correct defined data	1.00	0.00	
type, $1 \times 4 = 4$ marks)	1.00	0.00	
• Displayed the menu correctly (Award 1 mark for every correct defined	1.00	0.00	
menu operation $1 \times 5 = 5$ marks)	1.00	0.00	
• Prompted the user to choose an operation (Award 1 mark for every correct choose	1.00	0.00	
operation, $1 \times 5 = 5$ marks)	1.00	0.00	
• Correctly used the if statement	2.00	0.00	
• Prompted for correct output	2.00	0.00	
• Prompted for correct input	2.00	0.00	

Items to be Evaluated: Kindly award marks as appropriate. Give a brief comment on your observation.	Marks Available	Marks Obtained	Comments
• Debugged the program	4.00	0.00	
• Tested the program with test data	2.00	0.00	
• Program generated correct output.	2.00	0.00	
• Saved the program as ARITHMETIC in the “FirstName_Registration number” folder	1.00	0.00	
Sub-Total 3 29	3.00	0.00	
GRAND-TOTAL 115	115.00	0.00	
ASSESSMENT OUTCOME easytvvet.com ©2025 TVET CDACC	2,025.00	0.00	
Page 7 of 7	7.00	7.00	
The candidate was found to be: Competent Not yet Competent	50.00	5.00	
TOTAL:		13.00	