**Southern province**

**Kamonyi district**

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| **Sector:** | **ICT&MULTIMEDIA** | **Trainer:** | **TUYISINGIZE Leonard** | |
| **Trade:** | **COMPUTER SYSTEM AND ARCHITECTURE** | **School Year:** | **2025-2026** | |
| **Qualification Title:** | **TVET Certificate IV in Computer System and Architecture** | **Term:** | **ALL TERM** | |
| **RQF Level:** | **4** | **Module details** | | |
| **Module code and title** | | **GENCP 401 APPLY C PROGRAMMING** |
| **Learning hours:** | | **80** |
| **Number of Classes:** | | **1** |
| **Date:** | **08/09/2025** | **Class Name:** | | **L4 CSA** |

**Runda sector**

**Runda TSS**

**Term: 1**

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| **Weeks** | **Competence code and name** | | | **Learning Activities** | **Resources (Equipment, tools, and materials)** | **Evidences of formative assessment** | **Learning Place** | **Observation** |
| **Learning outcome (LO)** | **Duration** | **Indicative content (IC)** |
| **September 8 to December 19, 2025** | **LO1**: **Apply Computer programming Languages** | 10 hours | **IC1.1:** Identification of programming Language | ● Demonstration and simulation  ● Individual and group work  ● Practical exercise  ● Individualized  ● Trainer guided  ● Group discussion | Computers, Projector, Projection screen, Printers,  routers | **Written and practical assessment** | **Class**  **Computer lab** |  |
| **IC1.2:**  Development of an algorithm | ● Demonstration and simulation  ● Individual and group work  ● Practical exercise  ● Individualized  ● Trainer guided  ● Group discussion | Computers, Projector, Projection screen, Printers,  routers |
| **IC1.3:** Development of a flowchart | ● Demonstration and simulation  ● Individual and group work  ● Practical exercise  ● Individualized  ● Trainer guided  ● Group discussion | Computers, Projector, Projection screen, Printers,  routers |
| **LO2**: **Write C Programming codes** | 60 hours | **IC2.1:** Description of C programming concepts | ● Demonstration and simulation  ● Individual and group work  ● Practical exercise  ● Individualized  ● Trainer guided  ● Group discussion | Computers, Projector, Projection screen, Printers,  routers | **Written and practical assessment** |  |  |
|  |  | **IC2.2:** Description of C program structure | ● Demonstration and simulation  ● Individual and group work  ● Practical exercise  ● Individualized  ● Trainer guided  ● Group discussion | Computers, Projector, Projection screen, Printers,  routers |  |  |  |
| Integrated Assessment (for specific module) | | | Task | Consumables |  | workshop |  |

**Trainer’s name and signature: TUYISINGIZE Leonard**

**Term: 2**

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| **Weeks** | **Competence code and name** | | | **Learning Activities** | **Resources (Equipment, tools, and materials)** | **Evidences of formative assessment** | **Learning Place** | **Observation** |
| **Learning outcome (LO)** | **Duration** | **Indicative content (IC)** |
| **January 5, 2026 - on April 3, 2026**  **09/12-24/2/2023** | LO2: **Write C Programming codes** |  | **IC2.3: Application of condition statements** | ● Demonstration and simulation  ● Individual and group work  ● Practical exercise  ● Individualized  ● Trainer guided  ● Group discussion | Computers, Projector, Projection screen, Printers | **Written and practical assessment** | **Class**  **Computer lab** |  |
| **IC2.4: Application of loops** | ● Demonstration and simulation  ● Individual and group work  ● Practical exercise  ● Individualized  ● Trainer guided  ● Group discussion | Computers, Projector, Projection screen, Printers |
| **IC2.5: Application of functions** | ● Demonstration and simulation  ● Individual and group work  ● Practical exercise  ● Individualized  ● Trainer guided  ● Group discussion | Computers, Projector, Projection screen, Printers |
|  | **IC 2.6 : Application of pointers** | ● Demonstration and simulation  ● Individual and group work  ● Practical exercise  ● Individualized  ● Trainer guided  ● Group discussion | Computers, Projector, Projection screen, Printers |
| **IC 2.7 : Application of Arrays** | ● Demonstration and simulation  ● Individual and group work  ● Practical exercise  ● Individualized  ● Trainer guided  ● Group discussion | Computers, Projector, Projection screen, Printers |
|  | Integrated Assessment (for specific module) | | | Task | Consumables |  | workshop |  |

**Trainer’s name and signature: TUYISINGIZE Leonard**

**Term: 3**

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| **Weeks** | **Competence code and name** | | | **Learning Activities** | **Resources (Equipment, tools, and materials)** | **Evidences of formative assessment** | **Learning Place** | **Observation** |
| **Learning outcome (LO)** | **Duration** | **Indicative content (IC)** |
| **on April 20, 2026 - on July 3, 2026** | **LO3: Perform Program Testing** | 10 hours | **IC1.1:**  **Identification of errors** | ● Demonstration and simulation  ● Individual and group work  ● Practical exercise  ● Individualized  ● Trainer guided  ● Group discussion | Computers, Projector, Projection screen, Printers | **Written and practical assessment** | **Class**  **Computer lab** |  |
| **IC1.2:**  **Compilation of the C program** | ● Demonstration and simulation  ● Individual and group work  ● Practical exercise  ● Individualized  ● Trainer guided  ● Group discussion | Computers, Projector, Projection screen, Printers |
| **IC1.3:**  **Test of the C program** | ● Demonstration and simulation  ● Individual and group work  ● Practical exercise  ● Individualized  ● Trainer guided  ● Group discussion | Computers, Projector, Projection screen, Printers |
| 4 | Integrated Assessment (for specific module) | | | Task | Consumables |  | workshop |  |

**Prepared by: (Name, position and Signature) TRAINER: TUYISINGIZE Leonard**

**Verified by: (Name, position and Signature) DOS :**

**Approved by: (Name, position and Signature) SCHOOL MANAGER:**