**Southern province**

**Kamonyi district**

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| **Sector:** | **ICT&MULTIMEDIA** | **Trainer:** | **TUYISINGIZE Leonard** | |
| **Trade:** | **COMPUTER SYSTEM AND ARCHITECTURE** | **School Year:** | **2025-2025** | |
| **Qualification Title:** | **TVET Certificate III in Computer System and Architecture** | **Term:** | **ALL TERM** | |
| **RQF Level:** | **3** | **Module details** | | |
| **Module code and title** | | **CSAPA 301: ASSEMBLE PCB AND COMPUTER SYSTEM** |
| **Learning hours:** | | **80** |
| **Number of Classes:** | | **1** |
| **Date:** | **08/09/2025** | **Class Name:** | | **L3 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 / 2025 – December / 19 / 2025** | **LO1**: **Prepare Tools, material and Equipment** | 10 hours | **IC1.1:** Preparation of workplace | ● 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 system and architecture Workshop** |  |
| **IC1.2:**  Identification of tools, materials and equipment | ● Demonstration and simulation  ● Individual and group work  ● Practical exercise  ● Individualized  ● Trainer guided  ● Group discussion | Computers, Projector, Projection screen, Printers,  routers |
| **IC1.3:**  Calibration of equipment | ● Demonstration and simulation  ● Individual and group work  ● Practical exercise  ● Individualized  ● Trainer guided  ● Group discussion | Computers, Projector, Projection screen, Printers,  Routers |
|  | **LO2**: **Assemble PCBA using SMT** | 50 hours | **IC2.1:** Introduction to PCB | ● 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:** Identification of PCBA technologies | ● 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)** |
| **09/12-24/2/2023** | LO2:  **Assemble PCBA using SMT** |  | **IC2.3:**  **Description of Surface Mount technology for PCBA** | ● 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 system and architecture Workshop** |  |
| **IC2.4:**  **Perform SMT PCB Assembly process** | ● 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)** |
|  | **LO3:**  **Connect computer system parts** | 20 hours | **IC1.1:**  **Description of computer hardware parts** | ● 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 system and architecture Workshop** |  |
| **IC1.2:**  **● Connection of Desktop Computer parts** | ● Demonstration and simulation  ● Individual and group work  ● Practical exercise  ● Individualized  ● Trainer guided  ● Group discussion | Computers, Projector, Projection screen, Printers |
| **IC1.3:**  **Connection of Laptop Computer parts** | ● Demonstration and simulation  ● Individual and group work  ● Practical exercise  ● Individualized  ● Trainer guided  ● Group discussion | Computers, Projector, Projection screen, Printers |
|  |  |  | **IC1.3:**  **Test of assembled computer** | ● Demonstration and simulation  ● Individual and group work  ● Practical exercise  ● Individualized  ● Trainer guided  ● Group discussion | Computers, Projector, Projection screen, Printers |  |  |  |
|  |  |  | **I.C 1.4 Documentation of Assembly report** | ● Individualized  ● Trainer guided  ● Group discussion | Computers, 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:**