COMPUTER REPAIR AND MAINTENANCE

UNIT CODE: SEC/CU/CS/CR/01/5/A

Relationship to Occupational Standards

This unit addresses the unit of competency: Perform computer repair and maintenance

Duration of Unit: 120 hours

Unit Description

This unit covers the competeny required to perform computer repair and maintenance. It involves performing troubleshooting, dismantling faulty components, repairing/replacing faulty components, upgrading computer software/hardware, and preparing and documenting maintenance reports.

Summary of Learning Outcomes

- 1. Perform troubleshooting
- 2. Dismantle faulty components
- 3. Repair/Replace faulty components
- 4. Upgrade computer hardware/software
- 5. Prepare and document maintenance report

Learning Outcomes, Content and Suggested Assessment Methods

Learning Outcome	Content	Suggested Assessment
	Ø.	Methods
1. Perform troubleshooting	 Meaning terms Fundamentals of computer operations Factors affecting computers performance Hardware Software Computer testing 	Written testsOral questioningObservationPractical tests
	Tools used in computer testingSoftwareHardware	
2. Dismantle faulty components	 Meaning of terms Computer dismantling tools Computer components and dismantling procedures Handling of computer components Safety precautions Hardware Software 	 Written tests Observation Oral questioning Practical tests

Learning Outcome	Content	Suggested Assessment
		Methods
	• Personnel	
3. Repair/Replace faulty components	 Meaning of terms Computer diagnostic procedures Tools and instruments used in computer diagnosis process Procedures in repair/ replacements of computer components Testing and replacements of repaired/replaced computer components Procedures in computer repair Hardware Software Assembling of computer components 	 Written tests Observation Oral questioning Practical tests
4. Upgrade and update computer hardware/software 5.Prepare and document	 Meaning of terms Procedures in updating and upgrading computer software and hardware Software and hardware licensing procedure Testing of upgraded and updated computer hardware and software Preparation of maintenance report 	 Written tests Observation Oral questioning Practical tests
maintenance report	 Sharing of maintenance report Filing of maintenance report 	 Oral questioning Practical tests Written tests

Suggested Methods of Instruction

- Demonstration by trainer
- Practice by the trainee
- Field trips
- On-job-training
- Discussions

Recommended Resources

Tools	Materials and supplies
Measuring toolsHardware and software diagnostic tools	StationeryAssorted CablesAssorted protective devices
Equipment	Accessories Reference materials
 Computer Printers Monitors Projectors 	 Standards Internet Organization ICT polices Occupational Safety and Health Act (OSHA) National Environmental Management Authority (NEMA) regulations National Construction Authority (NCA) regulations Tables