

PERFORM COMPUTER REPAIR AND MAINTENANCE

ISCED UNIT CODE: 0612554 02A

TVET CDACC UNIT CODE: SEC/CU/CS/CR/02/5/MA

Relationship to Occupational Standards

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

Duration of Unit: 200 Hours

Unit Description

This unit covers the competencies required for performing computer repair and maintenance. It involves performing computer troubleshooting, repairing faulty components, testing computer component functionality and performing computer maintenance.

Summary of Learning Outcomes

Learning Outcomes	Durations (Hours)
1. Perform computer troubleshooting	50
2. Repair faulty components.	60
3. Test computer component functionality	60
4. Perform computer maintenance	30
Total Hours	200

Learning Outcomes, Content and Suggested Assessment Methods

Learning Outcome	Content	Suggested Assessment Methods
1. Perform computer troubleshooting	1.1. User data assessment 1.1.1. Introduction to computer troubleshooting 1.2. Computer problems identification 1.2.1. User data analysis, diagnosis and resolving 1.3. Determining solution to the problem	● Practical assessment ● Project ● Observation Checklist ● Product Checklist

	1.3.1. Computer hardware faults remedies	● Written assessment ● Portfolio of evidence
2. Repair faulty components.	2.1 Selection of computer components for replacement 2.4.1 Computer hardware components 2.2 Assembly of tools for repairing or replacing 2.4.2 Computer repair and maintenance tools 2.3 Observation of Safety procedures 2.4.3 Safety measures and procedures 2.4 Repair and replacing computer components 2.4.4 Repair and replacing components Instruction manuals 2.4.5 Computer components disassembly process 2.4.6 Reassembling repaired or replaced computer components 2.5 Disposing faulty or obsolete computer hardware components 2.5.1 Pollution	● Practical assessment ● Project ● Observation Checklist ● Product Checklist ● Written assessment ● Portfolio of evidence
3. Test computer component functionality	3.1 Performing POST test on computer 3.2 Evaluation of test Results 3.3 Generation of test Results report	● Practical assessment ● Project ● Observation Checklist ● Product Checklist ● Written

		assessment Portfolio of evidence
4. Perform computer maintenance	4.1 Computer maintenance scheduling 4.1.1 Introduction to computer maintenance 4.1.2 Types of computer maintenance 4.2 Performing computer maintenance 4.2.1 Computer maintenance techniques 4.2.2 Computer maintenance utilities 4.2 Computer maintenance report 4.2.3 Importance of computer maintenance report 4.2.4 Components of computer maintenance report	- Practical assessment - Project - Observation Checklist - Product Checklist - Written assessment - Portfolio of evidence

Suggested Delivery Methods

- Demonstration by trainer
- Practical work by trainee
- Viewing of related videos
- Field trips
- On-job-training
- Group discussions

Recommended Resources for 25 trainees

S/No.	Category/Item	Description/Specifications	Quantity	Recommended Ratio (Trainee: Item)
A	Learning Materials			
1	Textbooks		2 pcs	13:1
2	Installation manuals		5 pcs	5:1
3	Flip Charts		5 pcs	5:1

4	PowerPoint presentations	For trainer's use		
B	Learning Facilities Infrastructure			
5	Lecture/theory room		1	25:1
6	Laboratory		1	25:1
7	Internet Connection			
C	Consumable Materials			
8	Printing papers		1 ream	1:20
9	Foolscaps		1 ream	1:20
10	Toners/cartridges		2 pcs	13:1
11	Assorted colour whiteboard markers	For trainer's use		
D	Tools and Equipment			
12	Computers		25 pcs	1:1
13	Projector		1 pc	25:1
14	Printers		2 pcs	13:1
16	Whiteboard		1 pc	25:1
17	Flash drives		5 pcs	5:1
18	1 External Hard drive		1 pc	25:1
19	Application software suite		9 pc	3:1
20	Signal Testers		5 pc	5:1
21	Antistatic gloves		25 pairs	1:1