



REPUBLIC OF KENYA

COMPETENCY-BASED MODULAR CURRICULUM

FOR

INFORMATION AND COMMUNICATION TECHNOLOGY OPERATION

KNQF LEVEL 4

PROGRAMME ISCED CODE: 061 2354A

COMPUTER ESSENTIALS

UNIT CODE: 0611 351 01A

Relationship to Occupational Standards

This unit addresses the unit of competency: Perform Computer Essentials

Duration of unit: 120 Hours

Unit Description

This unit of learning covers the learning outcomes, content, assessment methods, methods of delivery and resources required to perform computer essentials. It involves manage computer devices, manage desktop settings, perform file management, manage computer software and perform online jobs.

Summary of Learning Outcomes

S/No	Learning Outcomes	Durations(Hours)
1.	Manage computer devices	20
2.	Manage desktop settings	30
3.	Perform file management	20
4.	Manage computer software	20
5.	To Perform online jobs	30
Total		120

Learning outcomes, Content and Suggested Assessment Methods

Learning outcome	Content	Suggested Assessment Methods
1. Manage computer devices	1.1. Selection of Computer Hardware devices 1.1.1. Introduction to computer devices 1.1.1.1. Meaning of computer hardware devices 1.1.1.2. Identification of computer components and port	<ul style="list-style-type: none">• Practical• Oral questions• Written tests• Observation• Reports• Portfolio of evidence

	<p>1.1.2. Computer case, monitor, keyboard, and mouse</p> <p>1.1.3. All the parts inside the computer case, such as the hard disk drive, motherboard and video card s</p> <p>1.1.3.1. Classification of computer hardware devices</p> <p>1.2. Disassembling of computer hardware devices</p> <p>1.2.1. Cleaning of computer devices</p> <p>1.3. Assembling of Computer Hardware devices</p> <p>1.3.1. Types of Computer Hardware devices</p> <p>1.3.2. Functions of various computer hardware devices</p> <p>1.3.3. Connecting computer hardware devices e.g. monitor, System Unit</p> <p>1.4. Booting of computer</p> <p>1.4.1. Introduction to booting</p> <p>1.4.2. Types of booting</p> <p>1.4.2.1. Cold Booting</p> <p>1.4.2.2. Warm booting</p> <p>1.5. Connecting computer peripheral devices</p> <p>1.5.1. Types of computer peripheral devices</p> <p>1.1.1.1. Printer</p> <p>1.1.1.2. Speaker</p> <p>1.1.1.3. Mouse</p> <p>1.1.1.4. Keyboard</p> <p>1.1.1.5. Projector</p> <p>1.5.2. Configuration of peripheral devices</p>	
2. Manage desktop settings	<p>2.1 Customization of desktop icons</p> <p>2.1.1 Introduction to desktop icons and settings</p> <p>2.2 Date and time settings</p> <p>2.3 Desktop settings customization</p>	<ul style="list-style-type: none"> • Practical • Oral questions • Written tests • Observation

	2.3.1 Background colour and pictures 2.3.2 Themes 2.3.3 Taskbar 2.3.4 Menu bar 2.3.5 Text size 2.3.6 Brightness	<ul style="list-style-type: none"> • Reports • Portfolio of evidence
3. Perform file management	3.1 Creating files and folders <ul style="list-style-type: none"> 3.1.1 Introduction to computer files and folders 3.1.2 Creation of files and folders 3.1.3 Compression and extraction of folders 3.2 Transferring files and folders <ul style="list-style-type: none"> 3.2.1 sharing of folders and files 3.3 File protection <ul style="list-style-type: none"> 3.3.1 Password 3.3.2 Encryption 	<ul style="list-style-type: none"> • Practical • Oral questions • Written tests • Observation • Reports • Portfolio of evidence
4. Manage computer software	4.1 Selecting data backup media <ul style="list-style-type: none"> 4.1.1 Types of data Backup media 4.2 Performing data backup 4.3 Installation of computer software <ul style="list-style-type: none"> 4.3.1 Introduction to computer software 4.3.2 Types of computer software <ul style="list-style-type: none"> 4.3.2.1 Applications 4.3.2.2 Operating systems 4.3.2.3 Utility programs 4.3.3 Configuration of computer software 4.4 Optimization of computer software <ul style="list-style-type: none"> 4.4.1 Updating computer software 4.4.2 Computer disk cleanup 	<ul style="list-style-type: none"> • Practical • Oral questions • Written tests • Observation • Reports • Portfolio of evidence
5. Perform Online Jobs	5.1. Introduction to online working <ul style="list-style-type: none"> 5.1.1. Types of online Jobs 5.1.2. Online job platforms (Upwork, Freelancer, Fiverr) 5.2. Online account and profile management	<ul style="list-style-type: none"> • Practical Assessment • Project • Third Party Report

	<p>5.3. Identifying online jobs job bidding</p> <p>5.4. Online digital identity</p> <p>5.5. Online job bidding</p> <p>5.6. Executing online tasks</p> <p>5.7. Management of online payment accounts.</p>	<ul style="list-style-type: none"> • Portfolio of Evidence • Written Assessment • Oral Questioning
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Suggested methods of Instruction

- Demonstration by trainer
- Practical work by trainee
- Viewing of related videos
- Group discussions
- Direct instructions

Recommended resources for 25 trainees

S/No.	Category/Item	Description/Specifications	Quantity	Recommended Ratio (Trainee: Item)
A	Learning Materials			
1.	Textbooks	For trainee's use	5 pcs	5:1
2.	Installation manuals	For trainee's use	5 pcs	5:1
3.	Flip Charts	For trainer's use	5 pcs	5:1
4.	PowerPoint presentations	For trainer's use	1	25:1
5.	Installation CDs/DVDs	For trainee's use	1	25:1
B	Learning Facilities & infrastructure			
6.	Lecture/theory room	For training	1	25:1
7.	Computer laboratory	For training	1	25:1
C	Consumable materials			

8.	Printing papers	For training	1 ream	1:20
9.	Foolscaps	For training	1 ream	1:20
10.	Toners	For printing	2 pcs	13:1
11.	Assorted colour of whiteboard markers	For writing	1	1:25
D	Tools and Equipment			
12.	Computers	For training	25 pcs	1:1
13.	Projector	For projecting	1 pcs	25:1
14.	Printers	For printing	2 pcs	13:1
15.	Whiteboard	For writing	1 pcs	25:1
16.	Flash drives	For sharing data	5 pcs	5:1
17.	External Hard drive	For sharing data	5 pcs	5:1
18.	System Software suite	For training	5 pcs	5:1
19.	Application Software suite	For training	5 pcs	5:1
20.	Computer Repair Tool box	For repairing computers	5	5:1