MODULE 1

By the end of this module unit, the trainee should able to utilise computer applications, apply communication skills, apply programming techniques to solve problems, solve mathematical computation, appreciate the role of an OS and apply Entrepreneurship skills in day to day activities

Topics

- 1. Introduction to ICT and ethics
- 2. Computer application I
- 3. Communication Skills
- 4. Structured programming
- 5. Computational mathematics

7.1.1. INTRODUCTION TO INFORMATION COMMUNICATION TECHNOLOGY AND ETHICS (150 HOURS)

7.1.1.01: INTRODUCTION

This module unit is intended to introduce the trainee to Information Communication Technology, equipping him/her with the necessary knowledge, skills and attitude to enable him/her professionally work with ICT facilities

7.1.1.02: GENERAL OBJECTIVES

By the end of this module unit, the trainee should be able to:-

- a) appreciate the role of ICT in contemporary society
- b) appreciate the ethical and legal implication in the use of ICT
- c) appreciate and uphold professional and life skills in the society

7.1.1.03: COURSE SUMMARY AND TIME ALLOCATION -150 HOURS

CODE	TOPIC	SUB-TOPIC	TIME	TOTAL
			T P	

7.1.1.1	INTRODUCTION TO ICT	• meaning of ICT	4	0	4
	10101	 uses of ICT in organizations ICT equipment / facilities impact of ICT in contemporary society 			
7.1.1.2	INTRODUCTION TO COMPUTERS	 meaning and importance of a computer historical evolution of computers classification of computers components of a computer uses of computers benefits challenges 	4	2	6
7.1.1.3	COMPUTER HARDWARE AND ORGANI- SATION	 computer hardware devices central processing unit input devices output devices storage devices bus system 	12	4	16
7.1.1.4	COMPUTER SOFTWARE	 meaning and importance of computer software classifi cation of computer software software Installation 	2	8	10
7.1.1.5	HARDWARE -SOFTWARE SELECTION AND ACQUISITION	meaning and importancefactors consideredproceduresmethods	4		4
7.1.1.6	COMPUTER PERSONNEL	 roles and skills of computer personnel 	2		2
7.1.1.7	COMPUTER SAFETY AND ERGONOMICS	meaning and importancethe safety of computer systemergonomics	4	2	6

CODE	TOPIC	SUB-TOPIC	TIME	TOTAL
			T P	

7.1.1.8	INTRODUCTION TO COMMUNICATION NET- WORKS	 meaning and importance of communication network types of communication tools/technologies types of networks 	4	2	6
7.1.1.9	ICT ETHICS AND LEGISLA- TIONS	 meaning and importance of ethics for ICT ethical challenges in ICT types reasons control measures meaning and importance of ICT legislations sources of ICT legislation ICT legislations and policies issues enforcement measures for ICT legislation and policies 	12		12
7.1.1.10	LIFE SKILLS	 meaning and importance of life skills type of Life skills time management-self awareness self esteem emotions and stress management people skills- others 	6	2	8
7.1.1.11	CONFLICT MANAGEMENT	 meaning of confl ict importance of managing confl icts types of confl icts causes of confl icts techniques or approaches to confl ict management 	6		6
CODE	ТОРІС	SUB-TOPIC	TIM T	IE P	TOTAL

7.1.1.12	SOCIAL RESPONSIBILITY IN ICT	 meaning and importance of social responsibility social responsibility s in ICT environmental protection confi dentiality and privacy others challenges of social responsibility in ICT 	4	2	6
7.1.1.13	EMERGING TRENDS IN ICT AND ETHICS	 emerging trends in ICT and ethics challenges of emerging trends in ICT and ethics coping with the challenges of emerging trends in ICT and ethics 	4		4

7.1.1.1T INTRODUCTION TO INFORMATION COMMUNICATION TECHNOLOGY (ICT)

THEORY

7.1.1.1.T0 Specifi c Objectives

By the end of this topic, the trainee should be able to:-

- a) explain the meaning of ICT
- b) explain the uses of ICT
- c) describe ICT equipment / facilities found in organisations
- d) explain the impact of ICT in contemporary society

CONTENT

7.1.1.T1 Meaning of ICT

7.1.1.1.T2 Uses of ICT

7.1.1.1.T3 ICT equipment / facilities found in organizations

computers photocopiers telephone / fax machines printers others

7.1.1.T4 Impact of ICT in contemporary society

7.1.1.2T INTRODUCTION TO COMPUTERS

7.1.1.2.T0 Specifi c Objectives

By the end of this topic, the trainee should be able to:-

- a) explain the meaning and importance of a computer
- b) describe the components of a computer

- c) desribe computer hardware
- d) desribe computer software
- e) explain the historical evolution of computers
- f) describe the classifi cation of computers
- g) explain the benefi ts and challenges of computers

CONTENT

- **7.1.1.2.T1** Meaning and importance of a computer
- **7.1.1.2.T2** Historical evolution of computers
- **7.1.1.2.T3** Computer components

computer hardware computer Software

7.1.1.2.T4 Classifi cation of computers

super computers mainframe computers micro computers mini computers

7.1.1.2.T5 Benefits and challenges in the use of computers

PRACTICE

7.1.1.2.P0 Specific Objectives

By the end of this topic, the trainee should be able to:-

- a) identify various components of a computer
- b) assemble computer components for use on a standalone computer

CONTENT

- **7.1.1.2.P1** Trainee to physically identify the components of a computer
- **7.1.1.2.P2** Trainee to set up a computer system for use as a standalone computer

7.1.1.3T COMPUTER HARDWARE AND ORGANISATION

THEORY

7.1.1.3.T0 Specifi c Objectives

By the of this topic, the trainee should be able to:-

a) describe computer hardware devices

7.1.1.3.T1 Computer hardware devices

input devices output devices central processing unit storage devices bus system others

PRACTICE

7.1.1.3.P0 Specific Objectives

By the end of this topic, the trainee should be able to:-

- a) identify various computer hardware devices
- b) disassemble and correctly reassemble a computer

CONTENT

- **7.1.1.3.P1** Trainee to identify various computer hardware devices
- **7.1.1.3.P2** Trainee disassembles and correctly re-assembles a computer

7.1.1.4T COMPUTER SOFTWARE

THEORY

7.1.1.4.T0 Specific Objectives

By the end of this topic, the trainee should be able to:-

- a) explain the meaning and importance of computer software
- b) describe the classification of computer software

CONTENT

7.1.1.4.T1 Meaning and importance of computer software

7.1.1.4.T2 Classifi cation of computer software

system software

- operating systems
- housekeeping software application software

PRACTICE

7.1.1.4.P0 Specific Objective

By the end of this topic, the trainee should be able to:a) correctly install and confi gure computer software
CONTENT

7.1.1.4.P1

Trainee to correctly install and confi gure computer software operating system – Windows, Linux, Unix, others application

7.1.1.5T HARDWARE, SOFTWARE SELECTION AND ACQUISITION

THEORY

7.1.1.5.T0 Specific Objectives

By the end of this topic, the trainee should be able to:

- a) explain the meaning and importance of hardware, software selection and acquisition
- b) describe factors considered in selection and acquisition
- c) highlight procedure of selection and acquisition
- d) describe methods of selection and acquisition

CONTENT

- **7.1.1.5.T1** Meaning and importance of hardware and software selection and acquisition
- **7.1.1.5.T2** Factors considered in hardware and software selection and acquisition
- **7.1.1.5.T3** Procedure of selection and acquisition of hardware and software
- **7.1.1.5.T4** Methods of hardware and software acquisition and selection

7.1.1.6T COMPUTER PERSONNEL

THEORY

7.1.1.6.T0 Specifi c Objective

By the end of this topic, the trainee should be able to:-

a) describe the roles and skill requirements expected of various computer personnel

CONTENT

7.1.1.6.T1 Roles and skills requirements of various computer personnel

computer programmers system analysts system designers others

7.1.1.7T COMPUTER SAFETY AND ERGONOMICS

THEORY

7.1.1.7.T0 Specific Objectives

By the end of this topic, the trainee should be able to:-

- a) describe the meaning and importance of computer safety and ergonomics
- b) describe computer safety
- c) explain computer ergonomics

CONTENT

7.1.1.7.T1 Meaning and importance of computer safety and ergonomics

7.1.1.7.T2 Computer safety

hardware safety software safety data safety

7.1.1.7.T3 Computer ergonomic

PRACTICE

7.1.1.7.P0 Specifi c Objectives

By the end of this topic, the trainee should be able to:-

a) demonstrate ergonomic use of computers

CONTENT

7.1.1.7.P1 Trainee to demonstrate ergonomic use of computers

7.1.1.8T INTRODUCTION TO COMMUNICATION NETWORK

THEORY

7.1.1.8.T0 Specifi c Objectives

By the end of this topic, the trainee should be able to:-

- a) explain the meaning of a communication network
- b) explain the uses and benefi ts of communication network
- c) describe telecommunication technologies
- d) describe the types of networks
- e) describe network topologies

CONTENT

7.1.1.8.T1 Meaning of a communication network

7.1.1.8.T2 Uses and benefits of communication networks

7.1.1.8.T3	Telecommunication technology		
7.1.1.8.T4	Types of network		
7.1.1.8.T5	Network topologies		
7.1.1.9T	ICT ETHICS AND LEGISLATIONS		
7.1.1.9.T0	THEORY Specific Objectives By the end of this topic, the trainee should be able to:- a) explain the meaning and importance of ICT ethics b) describe unethical behaviour in ICT c) explain reasons for unethical behaviour in ICT d) explain the measures for controlling unethical behaviour in ICT e) explain the sources of ICT legislations f) describe ICT legislations and policies g) explain enforcement measures for ICT legislation and policies		
	CONTENT		
7.1.1.9.T1	Meaning and importance of ICT ethics		
7.1.1.9.T2	Unethical behaviour in ICT		
	software piracy unauthorized access others		
7.1.1.9.T3	Reasons for unethical behaviour in ICT		
7.1.1.9.T4	Measures for controlling unethical behaviour in ICT		
7.1.1.9.T5	Sources of ICT legislations		
7.1.1.9.T6	ICT legislations and policies ICT policy Data Protection Copyright Information		

7.1.1.10T LIFE SKILLS

7.1.1.9.T7

THEORY

Privacy others

Enforcement measures for ICT legislation and policies

7.1.1.10.T0 Specifi c Objectives

By the end of this topic, the trainee should be able to:-

- a) explain the meaning and importance of life skills
- b) describe life skills

CONTENT

7.1.1.10.T1 Meaning and importance of life skills

7.1.1.10.T2 Life skills

time management self awareness self esteem emotions and stress management people skills others

7.1.1.11T CONFLICT MANAGEMENT

THEORY

7.1.1.11.T0 Specific Objectives

By the end of this topic, the trainee should be able to:-

- a) explain the meaning of confl ict
- b) explain the importance of confl ict management
- c) describe the types of confl icts
- d) explain the causes of confl icts
- e) describe the techniques of managing conflicts

CONTENT

- **7.1.1.11.T1** Meaning of confl ict
- **7.1.1.11.T2** Importance of confl ict management
- **7.1.1.11.T3** Types of confl icts

workplace confl icts family or domestic confl icts others

7.1.1.11.T4 Causes of confl icts

workplace family

7.1.1.11.T5 Techniques or approaches of managing conflicts preventive reactive

7.1.1.12T SOCIAL RESPONSIBILITY IN INFORMATION COMMUNICATION TECHNOLOGY (ICT)

THEORY

7.1.1.12.T0 Specific Objectives

By the end of this topic, the trainee should be able to:-

- a) explain the meaning and importance of social responsibility
- b) describe social responsibilitys in ICT
- c) explain the challenges of social responsibility in ICT

CONTENT

- **7.1.1.12.T1** Meaning and importance of social responsibility Social responsibility s in ICT
- **7.1.1.12.T2** environmental protection confi dentiality and privacy
- **7.1.1.12.T3** Challenges of social responsibility in ICT

7.1.1.13T EMERGING TRENDS IN ICT AND ETHICS

THEORY

7.1.1.13.T0 Specific Objectives

By the end of this topic, the trainee should be able to:-

- a) identify emerging trends in ICT and ethics
- b) explain the challenges and opportunities of emerging trends in ICT and ethics
- c) cope with the challenges of emerging trends in ICT and ethics

CONTENT

- **7.1.1.13.T1** Emerging trends in ICT and ethics
- **7.1.1.13.T2** Challenges and opportunities of emerging trends in ICT ethics
- **7.1.1.13.T3** Coping with the challenges of emerging trends in ICT and ethics

TEACHING/LEARNING RESOURCES

A computer system peripheral devices

Operating system and application software

- Ms Windows, Linux, and any of the application

Whiteboard

Relevant text books and free e-books

Online content (www. howstuffworks.com, www.wikipedia.com...)

ASSESSMENT MODE

Written Tests

Practical tests

Projects