



COMPETENCY BASED CURRICULUM

FOR

INFORMATION COMMUNICATION TECHNOLOGY

KNQF LEVEL 5

PROGRAMME ISCED CODE: 061 2454A

COMPUTER SOFTWARE

UNIT CODE: 0619 451 06A

Duration of Unit: 160 hours

Relationship to Occupational Standards

This unit addresses the unit of competency: Install Computer Software

Unit Description:

This unit covers the competencies required to install computer software. It involves installing computer software, testing computer software functionality and performing software maintenance.

Summary of Learning Outcomes

LEARNING OUTCOMES	DURATION (HOURS)
1. Install computer software	70
2. Test computer software functionality	40
3. Perform computer software maintenance	50
TOTAL:	160

Learning Outcomes, Content and Suggested Assessment Methods

Learning Outcome	Content	Suggested Assessment Methods
1. Install computer Software	1.1 Identification of computer software 1.1.1 Introduction to computer software 1.1.1.2 Definition of computer software 1.1.1.3 Classification of computer software 1.1.1.4 Types of computer software 1.1.2 Collecting computer software user needs. 1.2 Selection of computer software	<ul style="list-style-type: none">• Practical assessment• Project• Observation Checklist• Product Checklist

	<p>1.2.1 Factors to consider in computer software selection</p> <p>1.2.2 Acquisition methods of computer software</p> <p>1.3 Manage local user accounts</p> <p>1.3.1 Introduction to local user accounts</p> <p>1.3.2 Types of local user accounts</p> <p>1.3.2.1 Standard user account</p> <p>1.3.2.2 Administrator account</p> <p>1.3.2.3 Guest account</p> <p>1.3.3 Creating user accounts</p> <p>1.3.4 Configuration of local user accounts</p> <p>1.4 Performing data backup</p> <p>1.4.1 Importance of computer software backup</p> <p>1.4.2 Types of computer software backup</p> <p>1.4.3 Back up creation</p> <p>1.5 Installation of computer Software</p> <p>1.5.1 Computer software installation media</p> <p>1.5.2 Computer software installation methods</p> <p>1.5.3 Types of software registration</p> <p>1.5.4 Installing computer software</p> <p>1.5.5 Anti-malware software installation</p> <p>1.5.5.1 Identify Antimalware to install</p> <p>1.5.5.2 Identify Antimalware acquisition method</p> <p>1.5.5.3 Install Antimalware</p> <p>1.5.5.4 Configure Antimalware</p> <p>1.6 Computer software configuration</p> <p>1.6.1 Importance of software configuration</p>	<ul style="list-style-type: none"> • Written assessment • Portfolio of evidence
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	1.6.2 Computer software configuration tools	
2. Test computer software functionality .	<p>2.1 Software testing</p> <p>2.1.1 Importance of software testing</p> <p>2.1.2 Computer software testing techniques</p> <p>2.1.3 Computer software testing tools</p> <p>2.1.3.1 Test Complete</p> <p>2.1.3.2 Selenium</p> <p>2.1.3.3 Appium</p> <p>2.1.3.4 Postman</p> <p>2.1.4 Performing computer software testing</p> <p>2.2 Corrective measures</p> <p>2.2.1 Types of corrective measures</p> <p>2.2.2 Software corrective tools</p> <p>2.2.3 Performing corrective measures</p> <p>2.3 Testing of computer software functionality</p>	<ul style="list-style-type: none"> • Practical assessment • Project • Observation Checklist • Product Checklist • Written assessment • Portfolio of evidence
3. Perform computer software maintenance.	<p>3.1 Development of Software maintenance schedule</p> <p>3.1.1 Introduction to computer software maintenance</p> <p>3.1.1.1 Importance software maintenance</p> <p>3.1.2 Prepare software maintenance schedule</p> <p>3.1.3 Types of software maintenance</p> <p>3.1.3.1 Adaptive</p> <p>3.1.3.2 Perfective</p> <p>3.1.3.3 Preventive</p> <p>3.1.3.4 Corrective</p> <p>3.1.4 Computer software updates</p> <p>3.1.4.1 Service packs</p> <p>3.1.4.2 Version upgrades</p> <p>3.1.4.3 Security upgrades</p>	<ul style="list-style-type: none"> • Practical assessment • Project • Observation Checklist • Product Checklist • Written assessment • Portfolio of evidence

	<p>3.1.4.4 Device drivers</p> <p>3.1.4.5 Utility program updates</p> <p>3.2 Software functionality monitoring</p> <p>3.2.1 Software functionality monitoring tools</p> <p>3.2.2 Operating System event logs</p> <p>3.2.2.1 Types of event logs</p> <p>3.2.2.1.1 Error event logs</p> <p>3.2.2.1.2 Warning event logs</p> <p>3.2.2.1.3 Information event logs</p> <p>3.2.2.1.4 Success Audit event logs</p> <p>3.2.2.1.5 Failure Audit event logs</p> <p>3.3 Conducting software upgrade</p> <p>3.3.1 Importance of software upgrade</p> <p>3.3.2 Types of software upgrade</p> <p>3.3.3 Conducting software upgrade</p> <p>3.4 Conducting software update</p> <p>3.4.1 Importance of software update</p> <p>3.4.2 Types of software update</p> <p>3.4.3 Conducting software update</p> <p>3.5 Observing Safety procedures</p> <p>3.5.1 Safety measures and procedures</p> <p>3.5.1.1 Overall/apron/dust coat</p> <p>3.5.1.2 Antiglare screens</p> <p>3.5.1.3 Gloves</p> <p>3.5.2 Personal Protective Equipment's</p> <p>3.5.2.1 Proper use of tools and equipment</p>	
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Suggested Delivery Methods

- Instructor led facilitation using active learning strategies

- 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 trainers' use	5 pcs	5:1
3.	Flip Charts	For trainer's use	5 pcs	5:1
4.	PowerPoint presentations	For trainer's use		
5.	Installation CDs/DVDs	For burning software	25pcs	1:1
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 printing	1 ream	1:20
9.	Foolscaps	For writing	1 ream	1:20
10.	Toners	For printers	2 pcs	13:1

11.	Assorted colour of whiteboard markers	For trainer's use		
D	Tools and Equipment			
12.	Computers	For training	25 pcs	1:1
13.	Projector	For trainer's use	1 pcs	25:1
14.	Printers	For printing	2 pcs	13:1
15.	Whiteboard	For trainer's use	1 pcs	25:1
16.	Flash drives	For sharing data	5 pcs	5:1
17.	External Hard drive	For storing 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