INSTALL COMPUTER SOFTWARE

UNIT CODE: IT/CU/ICT/CR/02/5/B

Relationship to Occupational Standards

This unit addresses the unit of competency: Installation of Computer Software

Duration of Unit: 260 hours

Unit Description:

This unit describes the competencies required in installing computer software. It involves identification of software to be installed, installation of the software, and configuration of the software, applying computer application software in solving tasks, software testing, user training and software maintenance.

Summary of Learning Outcomes:

1. Identification of software to be installed
2. Install the software
3. Configure the software
4. Apply computer application software in solving tasks
5. Test software functionality
6. Perform user training

Learning Outcomes, Content and Suggested Assessment Methods

Learning Outcome	Content	Suggested Assessment Methods

1. Identify software to be installed	• ICT Concepts
	  ○ Definition of ICT
	  ○ Application areas of ICT
	• Definition of software
	• Classification of software
	• System
		• Practical
		• Oral questioning
		• Written test

Learning Outcome	Content	Suggested Assessment Methods

	• Application
	• Utility
	  ○Criteria for selection
	  ○Software Acquisition Methods
	• Off the shelf
	• Open source
	  ○Operating systems
	  ○Types of operating systems
	• Single and multi-user
	• Single and multitasking
	• Real time
	• Distributed
	• Batch
	  ○Functions of operating systems
	• Device management
	• Memory management
	• Storage management
	• Process control
	• Security Management
	  ○Types of operating system interfaces
	• Command-line/character user
	• Menu driven
	• Graphical user Interface	

2. Install the software	• Define software installation • Installation media • Software installation legal requirements • Existing data protection • Types of software installation	• Practical • Observation • Written tests • Writing reports

Learning Outcome	Content	Suggested Assessment Methods
	○ Attended ○ Unattended ○ Headless ○ Schedule/Automated ○ Clean/Updating ○ Network • Software installation and registration • Software configuration • Importance of registration	
3. Software configuration management	• Software configuration components ○ software configuration identification ○ software configuration control ○ software configuration status accounting and auditing • Reasons for software configuration ○ Tracking ○ Controlling • Importance of software configuration management ○ Identification ○ Management ○ Auditing and accounting	• Practical • Observation • Written tests • Writing reports •
1. Apply computer software in solving tasks	• Operating system • Word processing ○ Functions and concepts of word processing. ○ Documents and tables creation and manipulations	• Oral questioning • Project • Practical tests • Written tests

Learning Outcome	Content	Suggested Assessment Methods
	○ Mail merging ○ Word processing utilities ○ Printing • Presentation Packages; ○ Types of presentation Packages ○ Creating, formulating, running, editing, printing and presenting slides and handouts • Spread sheets • Meaning, formulae, function and charts, uses and layout • Data formulation, manipulation and application to cells • Printing • Office Internet and Electronic mail; ○ Office internet Connectivity ○ Internet Browsing ○ Electronic mail • Desktop publications ○ Cards ○ Brochures ○ Posters ○ Flyers ○ Magazines ○ Calendars ○ Printing	
2. Test software functionality	• Define software installation testing • Techniques Of Software Testing	• Practical • Oral

Learning Outcome	Content	Suggested Assessment Methods
	○ Boundary value analysis ○ Equivalence class partitioning ○ Error Guessing • Installation checklist • Functional Testing ○ Mainline functions ○ Basic Usability ○ Accessibility ○ Error Conditions • Generate test report	• Short tests • Learner portfolio of evidence.
3. Perform user training	• Keys to Developing an End User Training Plan ○ Determine user skill set ○ Creating a training program ○ Setting training goals ○ Training delivery methods ○ Assessing end-user needs • Training feedback	• Practical • Oral • Short tests • Learner portfolio of evidence.

Suggested Methods of Delivery

- Presentations and practical demonstrations by trainer;
- Guided learner activities and research to develop underpinning knowledge;
- Supervised activities and projects in a workshop;

The delivery may also be supplemented and enhanced by the following, if the opportunity allows:

- Visiting lecturer/trainer from the ICT sector;
- Industrial visits.

Recommended Resources

Tools

- Diagnostic tools

- Utility programs
- Processor and memory optimizers
- Wise Installer
- CruiseControl.Net
- Install Aware

Equipment

- Computer
- Software
- External Hard disk
- Flash disk
- CD/DVD

Materials and supplies

- Digital instructional material including DVDs and CDs;
- Operating system
- Machines
- Power
- Application software

Reference materials

- Manufacturers manuals