INSTALL COMPUTER SOFTWARE

UNIT CODE: IT/CU/ICT/CR/2/5

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, 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. Test software functionality
5. Perform user training

Learning Outcomes, Content and Suggested Assessment Methods

Learning Outcome	Content	Suggested Assessment Methods
1. Identify software to be installed	- Definition of software - Classification of software ✓ System ✓ Application - Criteria for selection - Software Acquisition Methods ✓ Off the shelf ✓ Open source - Operating systems - Types of operating systems ✓ Single and multi-user	• Practical • Oral questioning • Written test

	- 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 - Attended - Unattended - Headless - Schedule/Automated - Clean/Updating - Network - Software installation and registration - Software configuration - Importance of registration	- Practical - Observation - Written tests - Writing reports	
3. Software configuration management	- Software configuration components - software configuration identification - software configuration control - software configuration status accounting and auditing - Reasons for software configuration - Tracking	- Practical - Observation - Written tests - Writing reports	

	✓ Controlling	
	• Importance of software configuration management ✓ Identification ✓ Management ✓ Auditing and accounting	
4. Test software functionality	• Define software installation testing • Techniques Of Software Testing ✓ Boundary value analysis ✓ Equivalence class partitioning ✓ Error Guessing • Installation checklist • Functional Testing ✓ Mainline functions ✓ Basic Usability ✓ Accessibility ✓ Error Conditions • Generate test report	• Practical • Oral • Short tests • Learner portfolio of evidence.
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