

COMPUTER REPAIR AND MAINTENANCE

UNIT CODE: IT/CU/ICT/CR/6/6

Relationship to Occupational Standards

This unit addresses the unit of competency: **Perform Computer Repair And Maintenance**

Duration of Unit:150hours

Unit Description:

This unit specifies competencies required to perform computer repair and Maintenance. It involves performing troubleshooting, disassembling of faulty components, repairing/replacing faulty components, testing of component functionality upgradation and testing of hardware and software.

Summary of Learning Outcomes:

1. Perform troubleshooting
2. Disassemble faulty components
3. Repair/Replace and reassemble faulty components
4. Test computer functionality
5. Upgrade computer software/hardware

Learning Outcomes, Content and Suggested Assessment Methods

Learning Outcome	Content	Suggested Assessment Method
1. Perform troubleshooting	<ul style="list-style-type: none"><input type="checkbox"/> Computer parts<input type="checkbox"/> Assembling and disassembling process<input type="checkbox"/> Theory of probable cause<input type="checkbox"/> Test of theory of probable cause<input type="checkbox"/> problem identification<input type="checkbox"/> appropriate solutions<input type="checkbox"/> occupational safety and health standards	<ul style="list-style-type: none">• Practical exercises• Oral questioning• Written test• Learner portfolio of evidence.
2. Disassemble faulty components	<ul style="list-style-type: none"><input type="checkbox"/> Tools for disassembling<input type="checkbox"/> Procedures and techniques for disassembling<input type="checkbox"/> Repair or replace and	<ul style="list-style-type: none">• Practical exercises• Oral questioning• Written test• Learner portfolio

	reassemble components	of evidence.
3. Repair/Replace and reassemble components	<input type="checkbox"/> Determine components to replace or repair <input type="checkbox"/> Procedures and Techniques for reassembling <input type="checkbox"/> Component testing <input type="checkbox"/> Repair/replace report	<ul style="list-style-type: none"> • Practical exercises • Oral questioning • Written test • Learner portfolio of evidence.
4. Test computer functionality	<input type="checkbox"/> Computer testing tools <input type="checkbox"/> Testing techniques <input type="checkbox"/> Perform computer test functionality <input type="checkbox"/> Status report	<ul style="list-style-type: none"> • Practical exercises • Oral questioning • Written test • Learner portfolio of evidence.
5. Upgrade computer software/hardware	<input type="checkbox"/> Determine Reasons of upgrading <input type="checkbox"/> procedures and techniques for upgrading	<ul style="list-style-type: none"> • Practical exercises • Oral questioning • Written test • 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
<input type="checkbox"/> Straight-head screwdriver, large and small.
<input type="checkbox"/> Phillips-head screwdriver, large and small.
<input type="checkbox"/> Tweezers or part retriever.
<input type="checkbox"/> Needle-nosed pliers.
<input type="checkbox"/> Wire cutters.
<input type="checkbox"/> Chip extractor.
<input type="checkbox"/> Hex wrench set.
<input type="checkbox"/> Torx screwdriver

Equipment <ul style="list-style-type: none">• Computer• Tool box
Materials and supplies Digital instructional material including DVDs and CDs
Reference materials Manufacturers manuals

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