

<b>1 Module Details</b>	
<b>Module Name</b>	<b>Computer Systems Safety</b>
<b>Nominal duration</b>	It is expected that students with the appropriate entry knowledge and skills will successfully complete this module in 18 to 20hours.
<b>Module code</b>	NUE502
<b>Discipline code</b>	0703415
<b>2 Module purpose</b>	This module provides methods and criteria for ensuring a person has achieved levels of performance in the critical skills related to the installation, maintenance, repair, fault finding, testing of computer systems and associated peripheral devices.
<b>3 Prerequisites</b>	This module shall be undertaken only after work performance reports for all competency unit in Certificate III in Electrotechnology Computer Systems (UTE 3 05 99) to indicate that relevant work is routinely being carried out autonomously and to requirements.
<b>4 Relationship to competency standards</b>	<p>This module assesses part of the critical knowledge and skills supporting the achievement of competency in units:</p> <p>NES106aA Install electrical/electronic apparatus - computer systems</p> <p>NES206aA Maintain and repair apparatus and associated circuits – computer systems</p> <p>NES301aA Undertake commissioning procedure of apparatus and associated circuits – computer systems</p> <p>NES402aA Test apparatus and circuits – computer systems</p> <p>NES501aA Diagnose and rectify faults in apparatus and associated circuits – computer systems</p>
<b>5 Content</b>	<ol style="list-style-type: none"> <li>1. Working safely on a computer system <ul style="list-style-type: none"> <li>Knowledge</li> <li>Skills</li> </ul> </li> <li>2. Safe operation of a computer system <ul style="list-style-type: none"> <li>Knowledge</li> <li>Skills</li> </ul> </li> <li>3. Computer system equipment <ul style="list-style-type: none"> <li>Selection</li> <li>Components</li> <li>Peripherals</li> <li>Accessories</li> <li>Cables</li> </ul> </li> </ol>

	4. Protection methods & devices Operation Knowledge Skills
<b>6 Assessment strategy</b>	
<b>Assessment methods</b>	Assessment should be progressive reflecting a holistic approach to ensure the module purpose is met. To assist in ensuring validity, reliability and fairness assessment instruments should include practical exercises, assignments and written tests consisting of a number of item types, such as multiple choice, short answer and problem solving.
<b>Conditions of assessment</b>	Learning and assessment will take place in a simulated workplace environment.
<b>7 Learning Outcome Details</b>	
<b>Learning Outcome 1</b>	Demonstrate knowledge and skills for working safely with computer systems.
<b>Assessment criteria</b>	1.1 State the safety procedures to work on computer systems, peripheral devices and their environments. 1.2 Apply safe working practices.
<b>Learning Outcome 2</b>	Demonstrate knowledge and skills for ensuring a computer system and/or peripheral devices are safe to use.
<b>Assessment criteria</b>	2.1 State methods for ensuring computer systems, peripheral devices and accessories are safe to use. 2.2 Describe the minimum requirement for the installation, maintenance and testing of a computer system and its peripheral devices.
<b>Learning Outcome 3</b>	Demonstrate knowledge and skills for selecting compatible computer system equipment - components, peripherals, accessories and cables.
<b>Assessment criteria</b>	3.1 Apply methods for selecting equipment for a computer system.
<b>Learning Outcome 4</b>	Demonstrate knowledge and skills to ensure computer safety devices will operate as intended.
<b>Assessment criteria</b>	4.1 Explain the features and characteristics of computer safety systems. 4.2 Apply a method for ensuring computer safety systems will operate under fault conditions.
<b>8 Delivery of module</b>	
<b>Delivery strategy</b>	Delivery strategies must be suitable for learning both theoretical and practical aspects described in the module purpose. It is considered that the most effective way to achieve this is by integration of theory and practice where students learn by experimentation, research and reports. It is recommended that learning and assessment be facilitated in a holistic manner that may require learning outcome

**Resource requirements**

sequence other than that indicated in the module.

Resources should be sufficient to carry out learning activities on an individual basis.

Useful references include:

Scott Mueller Upgrading and Repairing PCs

Stuart M. Asser, Vincent J. Stigliano Microcomputer Servicing: Practical Systems and Troubleshooting

Don L. Beeson Assembling and Repairing Computers

Roger M. Kersey Personal Computer Operation and Troubleshooting

Don D Doerr Servicing PC-based Equipment

**Occupational Health and Safety Requirements**

A safe and healthy environment will be provided for students and teachers as well as the particular safety procedures followed as part of the learning / teaching content.