



**Unit:  
Computer Systems**

**Assignment title:  
Practical Portfolio**

**December 2015 – Sample Assignment**

**Marking Scheme**

Markers are advised that, unless a task specifies that an answer be provided in a particular form, then an answer that is correct (factually or in practical terms) **must** be given the available marks. If there is doubt as to the correctness of an answer, the relevant NCC Education materials should be the first authority.

This marking scheme has been prepared as a **guide only** to markers and there will frequently be many alternative responses which will provide a valid answer.

Each candidate's script must be fully annotated with the marker's comments (where applicable) and the marks allocated for each part of the tasks.

**Throughout the marking, please credit any valid alternative point.**

**Where markers award half marks in any part of a task, they should ensure that the total mark recorded for the task is rounded up to a whole mark.**

Task	Guide	Maximum Marks
1	<p><b>Microsoft Windows installation lab report</b></p> <p>Within the lab session there are four assessed practical activities. Each should be written up, with marks allocated as follows.</p> <p><b><u>Install Windows:</u></b> Report on the installation of Microsoft Windows. There is a description of the installation process with supporting pictures, covering the following issues:</p> <ul style="list-style-type: none"> <li>a. Identification of key stages in the installation (3 marks)</li> <li>b. Identification and description of required device drivers and their source locations (5 marks)</li> <li>c. Identification and description of unresolved issues – especially missing device drivers (4 marks)</li> </ul> <p><b><u>Antivirus software:</u></b> Annotated evidence is presented of the successful installation of an appropriate antivirus package. Screenshots of installation and of the package working are present. The following issues are covered:</p> <ul style="list-style-type: none"> <li>a. Identification of product used (2 marks)</li> <li>b. Identification and description of key stages in installation (3 marks)</li> <li>c. Identification and description of problems and unresolved issues (2 marks)</li> <li>d. Outline of the update process for the antivirus software (3 marks)</li> </ul> <p><b><u>Office package:</u></b> Annotated evidence is presented of the successful installation of an appropriate office package. Screenshots of installation and of the package working are present. The following issues are covered:</p> <ul style="list-style-type: none"> <li>a. Identification of product used (2 marks)</li> <li>b. Identification and description of key stages in installation (3 marks)</li> <li>c. Identification and description of problems and unresolved issues (2 marks)</li> </ul> <p><b><u>Free utility:</u></b> Annotated evidence is presented of the successful installation of an appropriate free package. Screenshots of installation and of the package working are present. The following issues are covered:</p> <ul style="list-style-type: none"> <li>a. Identification of utility, outline of what it does and reason why you chose this (make it different from that of your classmates) (5 marks)</li> <li>b. Identification and description of key stages in installation (3 marks)</li> <li>c. Identification and description of problems and unresolved issues (3 marks)</li> </ul>	<p style="text-align: right;">12</p> <p style="text-align: right;">10</p> <p style="text-align: right;">7</p> <p style="text-align: right;">11</p> <hr/> <p style="text-align: right;">40</p>

Task	Guide	Maximum Marks
2	<p><b>Linux installation lab report</b></p> <p>Within the lab session there are two assessed practical activities. Each should be written up, with marks allocated as follows.</p> <p><b>Install Linux:</b> Report on the installation of any suitable Linux distribution. There is a description of the installation process with supporting pictures. The following issues are covered:</p> <ul style="list-style-type: none"> <li>a. Identification of distribution (2 marks)</li> <li>b. Description of disk partitioning (e.g. partition options, partition size) (6 marks)</li> <li>c. Identification and description of required device drivers and their source locations (6 marks)</li> <li>d. Description of setting up administrator and standard user (5 marks)</li> <li>e. Description of network set-up (5 marks)</li> <li>f. Identification and description of installation process for one application (6 marks)</li> </ul> <p><b>Testing of Linux System:</b> A test plan is presented which is completed to show the testing of the Linux system. This should include:</p> <ul style="list-style-type: none"> <li>a. Tests to perform (i.e. actions or inputs to use) (2 marks)</li> <li>b. Expected results (2 marks)</li> <li>c. Actual results (2 marks)</li> <li>d. Explanation of results (2 marks)</li> <li>e. Actions if results do not match expectation (2 marks)</li> </ul>	<p style="text-align: right;"><b>30</b></p> <p style="text-align: right;"><b>10</b></p> <hr/> <p style="text-align: right;"><b>40</b></p>
3	<p><b>Faulty PC</b></p> <p>In this report, the approach taken and standard of documentation is much more important than the number of PC faults repaired. Therefore, for each system, the following should be covered and marks are allocated for the proper coverage of the fault diagnosis and repair process.</p> <ul style="list-style-type: none"> <li>a. The steps that you followed to identify the fault (5 marks)</li> <li>b. The cause of the fault (5 marks)</li> <li>c. The steps taken to remedy the fault (5 marks)</li> <li>d. The success or failure of the repair (5 marks)</li> </ul>	<p style="text-align: right;"><b>20</b></p> <hr/> <p style="text-align: right;"><b>20</b></p>
<b>Total: 100 Marks</b>		

## Learning Outcomes matrix

Task	Learning Outcomes assessed	Marker can differentiate between varying levels of achievement
1	3	Yes
2	1, 3	Yes
3	2, 3, 4	Yes

## Grade descriptors

Learning Outcome	Pass	Merit	Distinction
Understand the function of computer systems	Demonstrate adequate level of understanding	Demonstrate robust level of understanding	Demonstrate highly comprehensive level of understanding
Be able to design computer systems	Provide adequate design to address the specification	Provide detailed and appropriate design to address the specification	Provide wholly appropriate and innovative design that meets the specification
Be able to build and configure computer systems	Demonstrate ability to perform the task	Demonstrate ability to perform the task consistently well	Demonstrate ability to perform the task to the highest standard
Be able to undertake routine maintenance on computer systems	Demonstrate ability to perform the task	Demonstrate ability to perform the task consistently well	Demonstrate ability to perform the task to the highest standard