



# Unit: Computer Systems

Assignment title: Practical Portfolio

#### **SAMPLE**

## **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.

Task 1

Part a) Outline Requirements Specification – 20 marks

0-5 marks	6-7 marks	8-11 marks	12-13 marks	14-20 marks
No organisation identified or minimal information provided	Organisation identified but lacking reasoning	Organisation clearly identified	Organisation clearly identified with reasoning	Organisation clearly identified and justified
No or superficial or insufficient discussion to provide clarity on an organisation or functional requirements	Limited but (incomplete) functional and non-functional requirements	Some relevant functional and non-functional requirements.	Mostly relevant functional and non-functional requirements prioritised and justified	Comprehensive discussion of relevant functional and non-functional requirements prioritised and justified using MOSCOW
No or <b>superficial</b> or insufficient specifications provided for HW/SW	Limited but (incomplete) specifications provided for HW/SW	Some Relevant specifications provided for HW/SW	Mostly Relevant specifications provided for HW/SW prioritised and justified	Comprehensive discussion of specifications for HW/SW prioritised and justified using MOSCOW
No, superficial or very inconsistent description of CPU type, RAM and Disk space in the performance of the system	Limited (incomplete) description of CPU type, RAM and Disk space in the performance of the system missing key detail.	Clear description of CPU type, RAM and Disk space in the performance of the system with minor gaps in the details.	Clear, consistent description of CPU type, RAM and Disk space in the performance of the system.	Comprehensive discussion of CPU type, RAM and Disk space in the performance of the system, related explicitly to the needs of the organisation
No, superficial or very inconsistent description of disk space organisation.	Limited (incomplete) description of of disk space organisation, missing key detail.	Some relevant description of disk space organisation.	Mostly relevant description of disk space organisation. Related in part to the requirements of the organisation	Comprehensive discussion of disk space organisation. Related explicitly to the requirements of the organisation

### Part b) System Design Specification - 20 marks

0-5 marks	6-7 marks	8-11 marks	12-13 marks	14-20 marks
No, irrelevant or superficial discussion to provide <b>clarity</b> on system specifications	Limited (incomplete) but relevant system specification missing key detail.	Some relevant system specification but with minor gaps in the details.	Mostly relevant system specifications	Comprehensive complete and fully relevant system specifications taking account of priorities
No, or ONE relevant products identified for some requirements	TWO relevant products identified for a few requirements	Two relevant products identified for around half requirements	Two relevant products identified for most requirements	Two relevant products identified for all requirements, may have very minor details omitted
No or superficial/ unclear/ inaccurate, product/ supplier /pricing details provided,	Limited product/ supplier /pricing or inaccurate details given	Some complete product/ supplier /pricing minor gaps in the details.	Mostly complete product/ supplier /pricing	Comprehensive complete product/ supplier /pricing

### Part c) Critical Evaluation and System Selection - 10 marks

0-2 marks	3 marks	4-5 marks	6 marks	7-10 marks
No or unclear/ inaccurate identification of preferred solution	Limited (incomplete) identification of preferred solution	Some relevant identification of preferred solution	Mostly relevant identification of preferred solution	Comprehensive relevant identification of preferred solution
No or unclear/ inaccurate justification of how proposed solutions meet requirements.	Limited (incomplete) justification of how proposed solutions meet requirements. missing key detail.	Some relevant justification of how proposed solutions meet requirements.	Mostly relevant justification of how proposed solutions meet requirements. Related in part to the requirements of the organisation	Comprehensive justification of how proposed solutions meet requirements. Related explicitly to the requirements of the organisation

# Task 2 Windows Installation (30 marks)

#### a) Installation of Windows (10 marks)

0-2 marks	3 marks	4-5 marks	6 marks	7-10 marks
No, irrelevant or superficial discussion to	Most key stages Identified	All key stages Identified	All key stages Identified clearly	All key stages Identified
provide <b>clarity</b> of installation	Limited (incomplete) but relevant ID/description of drivers/ source/ issues missing key detail.	Some relevant ID /description of drivers/ source/ issues with minor gaps in the details.	Most relevant ID /description of drivers/ source/ issues	Comprehensive complete and fully relevant ID /description of drivers/ source/ issues

b) Antivirus Software (10 marks)

0-2 marks	3 marks	4-5 marks	6 marks	7-10 marks
No, irrelevant or superficial discussion to provide <b>clarity</b> of	AV product Identified	AV product Identified clearly	AV product Identified clearly with explanation	AV product Identified clearly and justified
AV product	Limited (incomplete) but relevant id/description of AV install, problems, update process missing key detail.	Some relevant id/description of AV install, problems, update process with minor gaps in the details.	Most relevant id/description of AV install, problems, update process	Comprehensive complete and fully relevant id/description of AV install, problems, update process

c) Office Package (5 marks)

0-1 marks	2 marks	3 marks	4-5 marks
No, irrelevant or superficial discussion to provide <b>clarity</b> of	Product Identified	Product Identified clearly	Product Identified clearly
installation	Limited (incomplete) but relevant ID /description of install, problems missing key detail.	Some relevant ID /description of install, problems with minor gaps in the details.	Comprehensive complete and fully relevant ID /description of install, problems

d) Free Utility (5 marks)

0-1 marks	2 marks	3 marks	4-5 marks
No, irrelevant or superficial discussion to provide <b>clarity</b> of	Product Identified	Product Identified clearly	Product Identified clearly
installation	Limited (incomplete) but relevant ID /description of install, problems missing key detail.	Some relevant ID /description of install, problems with minor gaps in the details.	Comprehensive complete and fully relevant ID /description of install, problems

# Task 3 Faulty PCs and Software Maintenance (20 Marks)

#### a) Fault finding and computer maintenance (10 marks)

0-2 marks	3 marks	4-5 marks	6 marks	7-10 marks
No, irrelevant or superficial discussion to provide clarity on	Steps taken identified but not clearly	Steps taken identified clearly for some faults	Steps taken identified clearly for most faults	Steps taken clearly identified for all faults
fault finding	Less than half faults discussed or limited/ incomplete but relevant ID of cause/ steps taken/result missing key detail	Missing discussion of some faults or some relevant ID of cause/ steps taken/result with minor gaps in the details.	Discussion of all faults and most relevant ID of cause/ steps taken/result	Discussion of all faults and comprehensive complete and fully relevant ID of cause/ steps taken/result
No, irrelevant or superficial discussion to provide <b>clarity</b> on	Update / software package/ driver Identified	Update / software package/ driver Identified clearly	Update / software package/ driver identified clearly	Update / software package/ drive identified clearly
computer maintenance	Maintenance performed	Maintenance performed and outcome explained	Maintenance performed and outcome explained and improvements explained	Maintenance performed and outcome explained and improvements explained convincingly and clearly

#### b) Routine / Preventative maintenance (10 marks)

0-2 marks	3 marks	4-5 marks	6 marks	7-10 marks
None or one potential reason identified	Two potential reasons identified with some explanation	Three potential reasons identified and explained clearly and appropriately	Four potential reasons identified and explained clearly and appropriately	Five potential reasons identified and explained clearly and appropriately
None or one maintenance task identified	Two maintenance tasks identified with some explanation	Three maintenance tasks identified and explained appropriately	Four maintenance tasks identified and explained clearly and appropriately	Five maintenance tasks identified and comprehensively explained

#### **Learning Outcomes matrix**

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

### **Grade descriptors**

Learning Outcome	Pass	Merit	Distinction
Understand the function of computer systems	Has adequate awareness of different perspectives or approaches within the area of study	Has sound, informed awareness of different perspectives or approaches within the area of study	Has comprehensive, well- informed awareness of different perspectives or approaches within the area of study
Be able to design computer systems	Demonstrates adequate ability to review the effectiveness and appropriateness of actions, methods and results	Demonstrates sound ability to review the effectiveness and appropriateness of actions, methods and results	Demonstrates comprehensive ability to review the effectiveness and appropriateness of actions, methods and results
Be able to build and configure computer systems	Can adequately Identify, adapt and use appropriate skills, methods and procedures to reach appropriate solutions.	Can soundly identify, adapt and use appropriate skills, methods and procedures to reach supported and appropriate solutions.	Can coherently identify, adapt and use appropriate skills, methods and procedures to reach well supported and highly appropriate solutions.
Be able to undertake routine maintenance on computer systems	Can adequately Identify, adapt and use appropriate skills, methods and procedures to reach appropriate solutions.	Can soundly identify, adapt and use appropriate skills, methods and procedures to reach supported and appropriate solutions.	Can coherently identify, adapt and use appropriate skills, methods and procedures to reach well supported and highly appropriate solutions.