COURSE NAME / CODE		BTEC National Subsidiary / Diploma / Extended Diploma in IT		
UNIT(s) No / Name		Unit 2 – Computer System		
LEVEL	3	Assignment No & Title	2.1 – Business case	

LECTURER/ASSESSOR	Gargi Gupta		
ISSUE DATE	29.01.16	DEADLINE DATE	12.02.16
SUBMISSION DATE			
RESUBMISSION AUTHORISATION BY LEAD INTERNAL VERIFIER*		AUTHORISATION DATE (BY IV)	
RESUBMISSION DATE**			

All resubmissions must be authorised by the **Lead Internal Verifier. Only **one** resubmission is possible per assignment, providing:
- The learner has met the initial deadlines set in the assignment, or ha met an agreed deadline extension
- The tutor considers that the learner will be able to provide improved evidence without further guidance
- Evidence submitted for assessment has been authenticated and accompanied by a signed and dated declaration of authenticity by the learner

Any resubmission evidence **must be submitted within 10 working days of receipt of assessment

Student declaration

I declare that this assignment is all my own work and the sources of information and material I have used (including the internet) have been fully identified and properly acknowledged as required.

STUDENT NAME	SIGNATURE

ASSESSMENT DETAILS & GRADING CRITERIA

(NB: Columns 1 &2 of the table below will be completed once the assignment has been submitted) Please note that criteria & evidence should be aimed to give the learner the maximum grade available within their qualification (i.e. A, Pass, Distinction)

Learning Aims Covered	
LO1	Understand the components of computer systems
L02	Be able to recommend computer systems for a business purpose

GRADING CRITERIA FOR TASK		EVIDENCE	EVIDENCE SEEN		Page No#	CRITERIA MET			
			Y	N		Y	I	N	IV
P1	Explain the function of computer hardware components	Task 1: Diagram with explanation							
P2	Explain the purpose of operating systems	Task 2: Report							
P3	Explain the purpose of different software utilities	Task 3: Report							
P4	Recommend a computer system for a given business purpose	Task 4:Report							
M1	Compare the features and functions of different operating systems	Task 2: Report							
M2	Justify choice of computer system to meet a given business purpose	Task 4:Report							
D1	Explain how software utilities can improve the performance of computer systems	Task 3: Report							

KEY: Y = Yes, I = Incomplete, N = No

BREAKDOWN OF HOW GRADES WILL BE AWARDED:

(NB: Please tick as appropriate)

TYPE OF QUALIFICATION	TICK	DESCRIPTION

BTECS / WORKSKILLS	√	Pass / Merit / Distinction / Fail
A LEVELS / A2		A-U

Internal Verification of Assignment Brief

IV Full Name		Signed		Date:	
LIV Full Name		Signed		Date:	

BTEC SAMPLE MATERIAL
LEARNER CONSENT DECLARATION

Centre No & Name	51330 – UTC Reading	
Subject & Level	BTEC National Subsidiary / Diploma / Extended Diploma in IT	3
Unit No & Title	Unit 02 – Computer System	
Learner No & Name		

I agree to the learner work identified above, after having been made anonymous, being used to support any of the following activities, which may involve the display of work online through the BTEC website or through publications:

- Professional Development and Training
- Centre Assessment Example Material
- Standardisation Support
- Publication Materials

Assessor Signature	GGupta
Name (block capitals please)	Gargi Gupta
Job Title	Teacher in IT
Date:	

Learner Signature	
Name (block capitals please)	
Parent/Guardian consent if under 16 years of age	
Date:	

Please ensure that this sheet is completed on submission of your assignment.

Please note that your assignment **MUST** have the following (unless otherwise stated):

1. Cover page
2. Table of Contents
3. Introduction
4. Conclusion
5. Bibliography & References

SCENARIO

A large Telecommunication (Telco) company TelXGroup is formed of various Telco and fixed line organisations which all comply with the same standards. Recently TelXGroup acquired CompanyA resulting in a significant company merger. CompanyA has previously been using their own internal systems, however these can no longer be of use within TelXGroups infrastructure. In order to integrate CompanyA, a system upgrade is therefore required to comply with TelXGroup's policies and cope with the increased load of the additional users.

You are tasked with improving the computer equipment at the TelXGroup HQ to cater for the recent acquisition. They currently have 1200 people, but now increased to over 2000 users and all have their own preferences and needs, you must accommodate them to the best of your ability.

What you must do first is upgrade some of the older desktops. When doing this you need to log what you are upgrading and what parts you are replacing this will include backup solutions also while doing this you should document the components for finance.

As each employee prefers their own operating system you should install multiple variations of operating systems and configure them to a usable level such as having office an antivirus installed. Some users will have specific needs and you should accommodate them, sometimes they may not know what exactly they want is and you should recommend solutions to them.

 Before you will start actual installation they want to assure that you have in-depth knowledge of computer hardware and operating system.

TASK 1   **Evidence you must produce for this task.**

Explain the function of computer hardware components
.

To achieve the criteria you must show that you are able to:	Unit	Criterion Reference
Create diagrams showing all the components of a computer and how they connect to a motherboard	02	P1
Annotate the diagrams with an explanation of what each component does	02	P1

You have to install multiple variations of operating systems, but before you actually install it write a report on following:

To achieve the criteria you must show that you are able to:	Unit	Criterion Reference
Explain what an operating system is include technical information such as what services and functions are provided by the OS, what features they have and what device drivers are and why they are important.	02	P2
Due to large variety of operating system in the market, write another report to compare the features and functions of two different operating systems that would be suitable for individual needs.	02	M1

TASK 3 **Evidence you must produce for this task.**

You are feeling overwhelmed choosing options for the work stations, and is confused by the different facilities that are available to you.

To achieve the criteria you must show that you are able to:	Unit	Criterion Reference
You need to explain the purpose of different software utilities by giving at least on example from each category of software utilities. Refer to security tools, clean up tools, and drive formatting	02	P3
Consider the benefits of computer performance created by using software utilities. You should give reasons for possible improvements from using a specific utility	02	D1

Task 4 **Evidence you must produce for this task.**

Finally you have to provide a recommendation for computer system that meets their requirements. Remember you have to think about the upgrade from 1200 people to 2000 people

To achieve the criteria you must show that you are able to:	Unit	Criterion Reference
Go on to outline the hardware and software you would need to purchase (including cost) for this environment	02	P4
Write a report to justify your choice of computer system to meet the specification. Use the list you created in P4 to structure your response.	02	M2

Sources of information	**Indicative reading for learners**
	Textbooks
	1. Chaffey D – E-business and E-Commerce Management, Second Edition (FT Prentice Hall, 2003) ISBN-10 0273683780, ISBN-13 978-0273683780
	2. Malmsten E, Leander K, Portanger E and Drazin C – Boo Hoo: A Dot.com Story (Random House Business Books, 2002) ISBN-10 0099418371, ISBN-13 978-0099418375 Vise D –

	The Google Story (Pan, 2008) ISBN-10 0330508121, ISBN-13 978-0330508124
	Websites
	www.ico.gov.uk International Commissioner's Office
	www.w3.org
	World Wide Web Consortium

P1

- [ ] Details and picture of each component below:
- [ ] processor
- [ ] motherboard
- [ ] BIOS
- [ ] PSU
- [ ] Hard drive configuration and controller e.g. SATA, IDE<master,slave
- [ ] Fan and heat sink
- [ ] Port e.g. USB,Serial,parallel
- [ ] internal memory e.g. RAM,ROM
- [ ] Specialist cars e.g. network,graphic
- [ ] output and input devices
- [ ] cabling e.g. coaxial,optical
- [ ] backing storage tupe e.g. pen drive,optical media

P2

- [ ] Operating sytem Example Windows, LINUX,MAC OS, DOS
- [ ] Command line and GUI operating system mentioned
- [ ] OS function and services e.g. machine and peripheral management, securty,file management
- [ ] Device Drivers
- [ ] Features e.g. ability to customise,security,stability and reliability,ease of management,associate utilities,cost and user support

P3

- [ ] Security; virus protection, firewall
- [ ] cleanup tools; removal of cookies,internet history,defragmentation
- [ ] Drive formatting

P4

- [ ] List all hardware components selected and explained
- [ ] List all software components selected and explained

M1

- [ ] Comparison of three OS
- [ ] Comparative table of OS functions,services and features
- [ ] Summary of strengths and weaknesses of each

M2

- [ ] Report on suggested hardware and software
- [ ] Consider cost, processing power, taining requirement, use of intergration with other system,storage capacity
- [ ] consider accessibility for disable user

D1

- [ ] Reason for improved performance for using Virus protection
- [ ] Reason for improved performance for using firewall
- [ ] Reason for improved performance for using cookie removal
- [ ] Reason for improved performance for clearing internet history
- [ ] Reason for improved performance for defragmentation
- [ ] Reason for improved performance for using Drive Formating

SUMMATIVE ASSESSMENT RECORD SHEET

Programme	BTEC National Subsidiary / Diploma / Extended Diploma in IT	Learner Name		Assessor Name	
Unit No. & Title	**2- computer systems**	Target Learning Aims	**LO1,LO2**	Issue Date	29 January 2016
Assignment No & Title	**1 -** Business case			Final Submission Date	12 February 2016

Target criteria	Criteria Achieved	Final Assessment Comments

Summative comments

Assessors declaration
I certify that the evidence submitted for this assignment is the student's own and the learner will be able to provide improved evidence without guidance. I understand that any false declaration is a form of malpractice.

Resubmission authorisation*		Resubmission Date:	Click here to enter a date.
* All resubmissions must be authorised. Only 1 resubmission is possible per assignment.			
Assessor Signature		Date:	04 February 2016
Learner comments			
Learner Signature		Date:	