

Devartment of Education

National Capital Region Schools Division Office – Muntinlupa City

SPECIAL PROGRAM IN TECHNICAL VOCATIONAL EDUCATION (SPTVE) **COMPUTER SYSTEMS SERVICING 10 Q3-W4**

I. **Topic: DATA PROTECTION**

II. **Objectives:**

- 1. understand data protection and data backup;
- 2. differentiate data protection and data backup and;
- 3. practice caution in protecting and backing-up a data.

III. **Brief Introduction**

Data protection is a security function and is one of the first steps of troubleshooting. Computer data must first be protected before starting any work on a client or customer's computer. A technician can be blamed or held liable if data loss occurs because of improper data handling.

Backup is a functional operation producing a copy of data on a computer or hard drive that is saved to an external media such as a DVD, CD, or flash drive. In an organization, back-ups are routinely done—may it be daily, weekly, or on a monthly basis. This is to ensure that the organization's data are protected and are readily available.

IV. **Activities**

Activity 1								
Directions : Read each sentence carefully and identify the word from the word box								
that best describe to a data backup. Write the answer on the space								
provided between each number.								
1. Involves storing data on hardware in a remote physical location, which can be accessed from any device via the internet such as Google Drive.								
2. Also known as removable hard drives connected outside the								
computer through a USB cable.								
3. Burning data to a disk is now a much less popular, although still a reliable method of data backup.								
4. A tiny solid-state drives that you can carry in your pocket.								
5. A server that's dedicated to saving data.								
WORD BOX CLOUD STORAGE EXTERNAL HDD COMPACT DISK								

NETWORK DRIVE





FLOPPY DISK

FLASH DRIVE



Department of Education

National Capital Region Schools Division Office – Muntinlupa City

Activity 2

Directions: Find and encircle to complete the keyword search puzzle related to data protection.

R	Ε	K	С	A	Н	Υ	٧	S	D	0	0
G	R	N	5	W	X	М	Q	Р	Ε	М	W
Ν	Ε	Q	0	٧	Υ	R	R	Υ	Т	Α	K
I	S	0	Ε	I	D	R	Z	W	Е	L	R
Н	π	Α	D	R	Т	S	G	Α	L	W	Т
S	R	Q	Α	U	Α	Р	0	R	Е	Α	Α
I	Ι	Α	Т	S	٧	W	Υ	Ε	D	R	J
Н	С	G	Α	Т	F	U	D	R	Ι	Е	Υ
P	Т	Q	G	L	Н	С	В	Α	C	G	U
Т	Р	R	0	Т	Е	С	Т	I	0	N	Q
Ι	D	Е	Т	P	U	R	R	0	C	Χ	Е
D	R	0	W	S	S	Α	Ρ	Ι	Н	0	J

	_	_
Key word	\odot	\odot
Hacker		
Encryption		
Virus		
Malware		
Spyware		
Adware		
Data		
Protection		1
Corrupted		
Deleted		
Password		
Restrict		

Source: https://www.tes.com/teaching-resource/data-security-11117399

Activity 3

Directions: Read each sentence carefully and select a letter that best describe to it. Write the answer on the space provided before the number.

- ____ 1. Copying of data on a computer or hard drive that is saved to an external media such as a DVD, CD, or flash drive.
 - a. Protection
 - b. Backup
 - c. Saving
 - d. d. Recovery
- 2. Computer data must first be protected before starting any work on a client or customer's computer.
 - a. Protection
 - b. Backup
 - c. Saving
 - d. d. Recovery
 - _ 3. Restricted area to the computer room server.
 - a. Physical security
 - b. Software security
 - c. Software privacy
 - d. Digital certificate







Department of Education

National Capital Region Schools Division Office – Muntinlupa City

4. N	laintenance of the accuracy and consistency of the dat	ca.
	. Recovery	
	. Integrity	
	Backup	
	. Saving	
	an be blamed or held liable if data loss occurs because	e of improper data
	andling.	
	. Technician	
	. Programmer	
	Systems Analyst	
d	. Network Administrator	
	Activity 4	
Direction	ns: Determine whether the statement below implies a data	protection (DP) or a data
	backup (DB). Write DP or DB as the answer on the spa	
	1. Used of Flash drive	
	2. Storing on an External drive	
	3. Printing the file	
	4. Burning data on a disc	
	5. Use of cloud storage6. Keeping data with a floppy disk	
	6. Keeping data with a floppy disk7. Saving data on a network drive	
	8. Enable firewall	
	9. Install antivirus and anti-spyware software	re
	10. Password protect your software and lock	
	11. Encrypt your data	
	12. Keep up with system and software securit	ty updates
	13. Disable file and media sharing if you don'	t need it.
	14. Cloning a Full Disk Image	
	15. Used of social media or email	
V. As	ssessment:	
Directio	ns: Read each sentence carefully and match Column A vanswer on the space provided.	with Column B. Write the
	COLUMN A	COLUMN B
1.	Basically, the process of keeping certain information	
·	private. It involves the use of various methods to make	A. Data security
	sure that data is kept confidential and safe.	7. Data security
2.	When data is processed it is usually changed in some	B Data integrity
	way or another and integrity describes the correctness	B. Data integrity
	of this change.	C Safaguards
		C. Safeguards







Devartment of Education

National Capital Region Schools Division Office – Muntinlupa City

3. Are needed to make sure that the data has integrity by detecting any mistakes or malicious change to the data. 4. A copy of computer data taken and stored elsewhere D. Data backup so that it may be used to restore the original after a data loss event. E. Software Registration The most obvious choice of protecting data is to keep 5. it in a safe locked room/building safeguarded by a lock-and-key, ID card scanning, biometrics, or alarm F. Physical security systems. Security measures which can protect data by running 6. G. Software security a program, the most common approaches used now a davs. H. Encryption Makes data in a computer system illegible and makes 7. data look meaningless. I. Decryption A key is needed before the data can be changed back 8. to its original form. Encrypted data used to show that the data being sent J. Digital signature 9. or read is genuine. If the recipient of the data can correctly decrypt the digital signature then the data K. Digital certificate should be correct. 10. This is an encrypted message which confirms that the person is who they say they are and includes a digital signature.

VI. Reflections:

- 1. What will you do if you unintentionally deleted an important data file?
- Can you give at least 5 examples of a data storage device?

References:

- CHS 10 module
- www.tesda.gov.ph
- http://en.wikipedia.org www.techsoup.org www.howstuffworks.com

- www.microsoft.com/technet/network

Writer: Jacinto Tabios

Validator: Gregorio

