DEPARTMENT OF EDUCATION- NATIONAL CAPITAL REGION SCHOOLS DIVISION OF PASAY CITY

MODULE IN TLE 9 (COMPUTER SYSTEM SERVICING)

First Grading / Week 3 / Day 2

Name of Student:	 Grade and Section:	
Name of Teacher:		

Objectives:

Prepare customized installers in accordance with software utilization guide and end user agreement

- Prepare and create a bootable operating system installer using Windows Command Prompt and RUFUS (third party software)
- Enumerate the step-by-step process in creating bootable devices aligned to the software manufacturer instructions.
- Evaluate the importance of portable bootable device as medium in installing software.

WHAT TO KNOW

Lesson: Installer Preparation and Creating Bootable Devices



Do you know how to create a bootable disk? Why do we need to create a bootable disk? What are the steps in making a bootable disk? What is the difference between the two ways in creating bootable disk? How important for us, that we know manually the steps in creating bootable disk?

Once your computer hardware is ready, the next process is to prepare and create the bootable installer device for the installation of the operating system in your computer.

- A bootable disk enables you to boot computer from CD or USB disk instead of system installed on local hard drive.
- Usually the bootable disk is removable device such as USB flash drive, CD-ROM, etc. and it is mainly used to fix issues when system is down.
- CDs and DVDs used to take part, but these days more users choose to use USB drive than CD/DVD. Optical device is large and brittle, and it may get damaged due to scratch or bend; thus, it may not be able to boot when you need it desperately. Bootable drive created on a USB flash drive is just the perfect device for emergency because it is very portable and robust.

Bootable Disk Creation:



There are two (2) ways in creating a bootable disk.

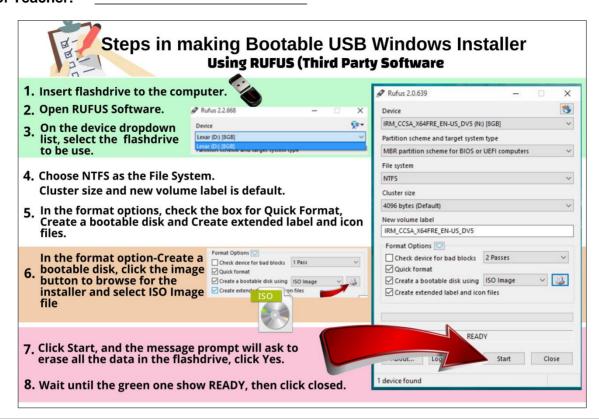
- 1. Creating Bootable USB Windows Installer using Diskpart/CMD.
- 2. Creating Bootable USB Windows Installer using a third-party software, RUFUS



REFERENCES FOR FURTHER ENHANCEMENT

- Internet: https://www.techfleece.com/2015/07/08/how-to-create-a-bootable-windows-usb-drive-using-rufus
- YouTube: https://www.youtube.com/watch?v=OJ5Teoiicy8;

Name of Student: _____ Grade and Section: _____ Name of Teacher:



- **Installer** is a piece of software that installs an operating system, programs, applications, drivers and other software on a computer.
- **Installation** (or setup) of a computer program is the act of making the program ready for execution.
- **File extension** is the suffix at the end of a filename that indicates what type of a file it is. Common Windows Installer File Extensions:
 - Executable .exe

- Compressed Zip File .zip
- Microsoft Windows Installation .msi
- ISO image .iso
- **Bootable disk** is usually a startup disc or boot disc that contains bootable files required for the computer to run an operating system.

WHAT TO PROCESS

EXERCISE 1: SEQUENCING

Directions: Arrange the following steps in chronological order. Use numbers to indicate their order of precedence. The first number is done for you.

precedence. The first number is done for you.	
Creating Bootable Device using Diskpart or Cor	mmand Prompt
1 Insert flash drive	Select disk "x"
Type diskpart	List and select partition
Type list disk	Create partition primary
Open a command prompt	Format FS=NTFS quick
Type clean	Exit
Active	Save ISO image to your flash drive.
Creating Bootable Device using RUFUS Softwar Open Rufus software Choose NTFS as file system Wait until the green show READY and close Select ISO Image	re Insert flash drive Select flash drive to use Click Start Check the boxes in the format option
EXERCISE 2: FAMILIARIZATION	
Directions: Spell out the following acronyms. Write your a	nswers on the space provided below.
	3
2. CD 7.DVD	
3. PC 8. FDD)

9. RAM₁

4. HDD

5. ROM

		PASAY-G9-Q1-W3-D2
ame of Student:	Grade and Secti	ion:
lame of Teacher: XERCISE 3: UTILIZE THE VIDEO		
Directions: Watch the video tutorial about "creating Bootable USB drive for Windows 7/8/8.1/10 using References: https://www.youtube.com	Rufus". com/watch?v=OJ5Teoiicy8	
https://www.youtube.co fter watching, write down a summary of your obs	com/watch?v=8A1sUPqnurs	<u> </u>
inter watering, write down a barrinary or your obe	Solvation about the video.	
NALYSIS: Answer the following sentences.		
What have you observed during the video	presentation?	
2. Which of the two methods of creating a bo	ootable flash drive you think	is easier to perform and wh
THINGS TO REMEMBER! Installer Preparation and Creating Bootable Devi	icas	5
Bootable disk is usually a startup disc or bootable computer to run an operating system. Examples of Bootable Disk: DVD, CD and U	ot disc that contains bootable	
It is important to make the disk bootable so disk.		
4. There are two ways in creating a bootable dCreating Bootable USB Windows In		
 Creating Bootable USB Windows In ISO stands for International Organization for 		ware, RUFUS
EVALUATION: MATCHING TYPE Directions: Match column A with column B. Write	vour answers on the snace	nrovided before the number
Column A	your answers on the space	Column B
1. A startup disc or boot disc that contains boo computer to run an operating system	otable files required for the	a. Format fs=ntfs Quicb. Flash drive
2. It is the suffix at the end of a filename that in		is. c. Installer
3. Microsoft Windows Installation File Extension4. It is a computer program that installs files, s		dzip s, eiso
or other software into a computer.	, от оррания,	f. Installation
5. Compressed Zip File extension		g. Bootable Diskh. File Extension
6. Create a specified partition on a flash drive7. File Extension of ISO image		imsi
8. Example of bootable disk		j. Create Partition
9. Format flash drive in diskpart. 10. It is an act of making the program ready fo	or execution	Primary
SSAY	n excedition.	
Directions: Answer the following questions in prep 1. What are the requirements on creating a b		
2. What are the advantages of using a flash of	drive as an installer compa	red to a bootable CD/DVD?
3. What are the procedures on how to create	a bootable flash drive usin	ng Windows using RUFUS?
	Prepared	l by:

JONALYN O. ROSARIO Pasay City North High School Tramo Campus