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

MODULE IN TLE 9 (Computer System Servicing)

First Grading / Week 4 / Day 1

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

Objective

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)

are) 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.

Before creating a bootable installer device, let's define the following term:

- **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.

Bootable Disk Creation:



There are two ways in creating a bootable disk

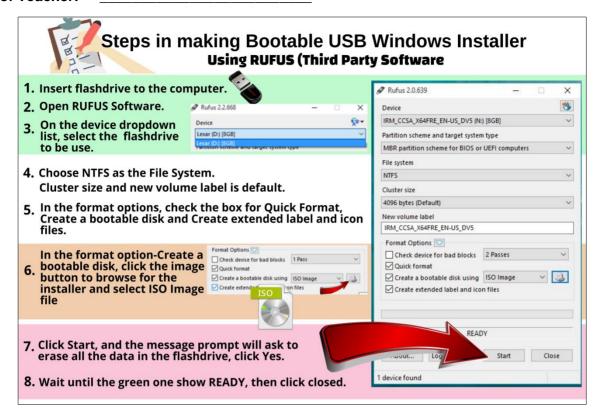
- Creating Bootable USB Windows Installer using Diskpart/CMD.
- Creating Bootable USB Windows Installer using a third-party software, RUFUS



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;

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EXERCISE 1: WATCH VIDEO WHAT TO PROCES

Directions: Watch the video tutorial about "creating a bootable flashdrive using cmd prompt" and "Create Bootable USB drive for Windows 7/8/8.1/10 using Rufus".

References: https://www.youtube.com/watch?v=OJ5Teoiicy8
https://www.youtube.com/watch?v=8A1sUPqnurs

After watching, write down a summary of your observation about the video. (Minimum of 3 sentences)

	YSIS: Answer the following sentences. What have you observed during the video presentation?
2.	Which of the two methods of creating a bootable flashdrive you think is easier to perform and why?

EXERCISE 2: INSIGHT

Directions: Answer the following questions in preparing and creating a bootable devices installer.

- What are the requirements on creating a bootable flashdrive installer?
- 2. What are the advantages of using a flashdrive as an installer compared to a bootable CD/DVD?
- 3. What are the procedures on how to create a bootable flashdrive using Windows using RUFUS?

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	Section:
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EXERCISE 3: MATCH-UP	
Directions: Match column A to B. Write your answer on the space provi	
Column A	Column B
1. A startup disc or boot disc that contains bootable files required fo computer to run an operating system	b. Flash drive
2. It is the suffix at the end of a filename that indicates what type of	
3. Microsoft Windows Installation File Extension4. It is a computer program that installs files, such as applications, or	dzip drivers. eiso
or other software into a computer.	f. Installation
5. Compressed Zip File extension	g. Bootable Disk
6. Create a specified partition on a flash drive	h. File Extension
7. File Extension of ISO image	imsi
8. Example of bootable disk	j. Create Partition
9. Format flash drive in diskpart.	Primary
·	,
10. It is an act of making the program ready for execution.	
THINGS TO REMEMBER!	æ
Installer Preparation and Creating Bootable Devices	
1. Bootable disk is usually a startup disc or boot disc that contain	ns bootable files
required for the computer to run an operating system.	
2. Examples of Bootable Disk: DVD, CD and USB(Universal Se	rial Bus) Flash Drive
3. It is important to make the disk bootable so that computer of	

EVALUATION: REARRANGE THE PROCEDURE

4. There are two ways in creating a bootable disk:

inside the disk.

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

• Creating Bootable USB Windows Installer using a third-party software, RUFUS

• Creating Bootable USB Windows Installer using Diskpart/CMD.

5. ISO stands for International Organization for Standardization

Creating Bootable Device using Diskpart or Commi	and 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 SoftwareOpen Rufus softwareChoose NTFS as file systemWait until the green show READY and closeSelect ISO Image	Insert flash driveSelect flash drive to useClick StartCheck the boxes in the format option	

Prepared by:

JONALYN O. ROSARIO Pasay City North High School Tramo Campus

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Name of Student: Name of Teacher:	 Grade and Se	ection:

ANSWER KEY

EXERCISE 1: WATCH VIDEO

After watching, write down a summary of your observation about the video. (Minimum of 3 sentences)

Summary of observation may differ as individual has different view and observation.

ANALYSIS: Answer the following questions.

3. What have you observed during the video presentation?

There are two ways in preparing and creating a bootable operating system installer, one is using diskpart or command prompt and the other one is using a third party software which is the RUFUS software. (Answers may differ due to different views)

4. Which of the two methods of creating a bootable flashdrive you think is easier to perform and why?

(Answers may differ due to different views and opinion)

EXERCISE 2: INSIGHT

- 1. What are the requirements on creating a bootable flashdrive installer? Computer or Laptop, USB Flashdrive
- 2. What are the advantages of using a flashdrive as an installer compared to a bootable CD/DVD? Bootable flashdrive is a new, portable and handy. Most laptops and computers nowadays don't have internal optical disc to run a CD/DVD. External DVD drive is needed for some computer in order to install a software or operating system in a computer. It is best to use the USB flashdrive than the CD/DVD. (Answers may vary due to different insight)
- 3. What are the procedures on how to create a bootable flashdrive using Windows using RUFUS? Open RUFUS Software, insert USB Flash Drive, select ISO Image File then click Start, and the message prompt will ask to erase all the data in the usb flash drive, click Yes. And wait until the green one show READY, then click closed.

EXERCISE 3: MATCH-UP

- 1. G
- 2. H
- 3. I
- 4. C 5. D
- 6. J
- 7. E
- 8. B
- 9. A
- 10. F

EVALUATION: REARRANGE THE PROCEDURE

Creating Bootable Device using Diskpart or Command Prompt		
1	5	
3	8	
4	7	
2	10	
6	11	
9	12	

Creating Bootable Device using RUFUS Software	
2	1
4	3
8	7
6	5