

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: \_\_\_\_\_

- Objectives:**  
*Install and configure drivers of peripherals and devices in accordance with manufacturer’s instructions and OS installation procedures.*
- *Recognize the importance of Peripheral Device Drivers in Windows 7*
  - *Familiarize with the Installation and configuration of the device drivers*



WHAT TO KNOW

**Lesson: Install drivers of peripherals/Devices for Windows 7**



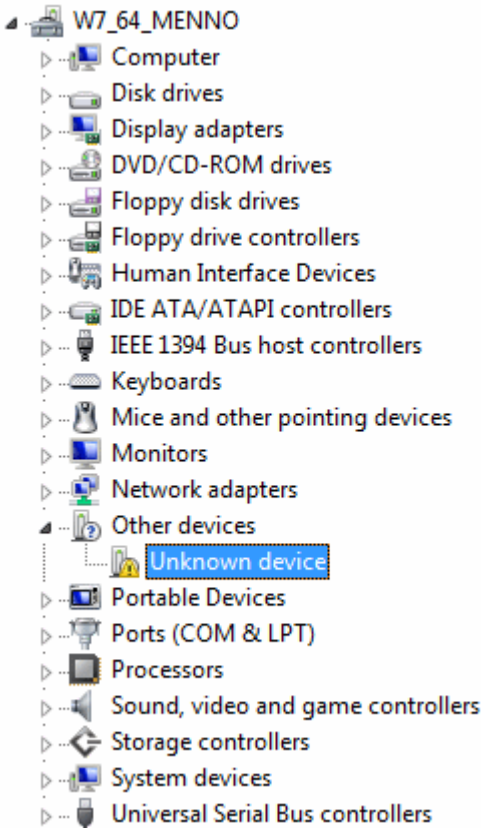
Now that you successfully installed the operating system, you will need to configure the devices such as Video Card, Network Card, Sound Card, etc. by installing the device drivers of each hardware components.

The Windows 7 operating system is completely installed in the computer successfully, the next step is to install and configure all the computer components including the peripheral devices. Hardware devices need drivers to function properly. Most of these drivers are installed automatically by Windows 7 but if this is not the case these drivers need to be installed by the user.

Any hardware can work with Windows if the appropriate drivers are installed. Drivers are small software that help the operating system use or “drive” the device.

**Viewing Installed Devices**

1. Click Start → Settings → Control Panel.
2. In the Control Panel window, select System to open the System Properties dialog box.
3. In the System Properties window, then select *Device Manager* to get a list of hardware in the computer. Opening the Device Manager will tell the user which hardware drivers need to be installed by marking them with a yellow exclamation mark.



**Configuring Hardware Devices**

- Automatic Configuration of Device
- Manual Configuration of Device
- Manual Configuration of a non-plug and play device

**Installing Drivers**

Some of the drivers can be installed by Windows Update but when this offers no solution the drivers will need to be downloaded from the manufacturer’s website. There is also an option to install the drivers from the CD/DVD accompanying the hardware, but in most cases, it is better to download the most recent version. Most downloaded drivers install automatically by running a setup procedure and reboot the computer.

*The procedures listed below show how to obtain and install drivers for peripheral devices on Microsoft Windows computer.*

1. Determine the hardware manufacturer  
First, identify the model of the specific device you need drivers for. This information is important so that you can get the correct driver needed.

**REFERENCES FOR FURTHER ENHANCEMENT**

- Book: PC Assembly and Troubleshooting, page 123
- Module: TLE ICT Computer Hardware Servicing 9, page 120
- Module: CSS NCII Install and Configure Computer Systems, page 106
- Website: Optimizing PC - [http://www.optimizingpc.com/windows7/windows\\_7\\_hardware\\_drivers.html](http://www.optimizingpc.com/windows7/windows_7_hardware_drivers.html)

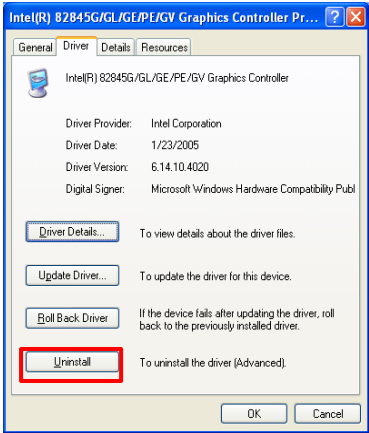
Name of Student: \_\_\_\_\_ Grade and Section: \_\_\_\_\_  
Name of Teacher: \_\_\_\_\_

2. Obtain the device driver  
To obtain the latest driver, use the following list of possible sources for the driver:
- Go to the website of the website of the manufacturer, then download and save the drivers on your computer. Most manufacturers have free drivers for their products online.
  - CD/DVD device driver installer. The CD/DVD is the original driver which is included when you buy a computer or device.
3. Install the driver  
Extract the file once the download is finished. It is important to know that different drivers have different instructions on how to install it and so it is important that you follow thoroughly to avoid errors. And finally, the driver is now ready for installation. To setup the installation, right click the extracted file and run as 'administrator' to install the device driver and make sure to follow the instruction.
4. Restart the computer.
5. After the installation of driver, make a quick trip to Device Manager to make sure that the driver is properly installed.

- Device drivers are software that enable operating system to interact with the hardware devices of the computer.
  - A device is supported by one or more device drivers which are supplied by the device manufacturer
  - Device drivers can be 8-bit, 16-bit, 32-bit, and 64-bit based on the operating system architecture
  - Device driver signing is a process by which the operating system vendors verify the software and hardware products
  - Common drivers are Network Interface Card, Sound Card, Video Card, Local Area Network (LAN) driver, CD media driver, expansion card, keyboard, printer, MODEM, monitor, USB devices and others.

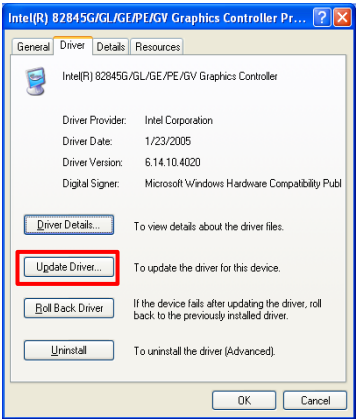
Updating Device Drivers

1. Click Start, right-click My Computer, and click Properties.
2. In System Properties screen, click the Hardware tab, and then click Device Manager.
3. In Device Manager, right-click the device that you want to update, and then click Properties
4. On the Driver tab, click Update Driver to open the Hardware Update Wizard, and then follow the instructions in the wizard



Rolling Back a Driver

1. Open Device Manager.
2. In the details pane, expand the hardware category to which the device driver belongs, right-click the device driver, and then click Properties.
3. On the Driver tab, click Roll Back Driver.



EXERCISE 1: ENUMERATE

Directions: Enumerate the following. Write the answer on the space provided.

1. Two ways to obtain the device driver.
- a.

b.
2. Six (6) steps to view the installed devices of your computer.
- a.

b.

c.

d.

e.

f.
3. Three ways to configure hardware devices
- a.

b.

c.

Name of Student: \_\_\_\_\_

Grade and Section: \_\_\_\_\_

Name of Teacher: \_\_\_\_\_

4. Five common examples of device driver
- a.

b.

c.

d.

e.

EXERCISE 2: ARRANGING STEPS

Directions: Rearrange the following steps to complete the procedure in obtaining a new device driver. Write one to five on the space provided.

- \_\_\_\_\_ a. Extract the file
- \_\_\_\_\_ b. Go to the website of the hardware manufacturer
- \_\_\_\_\_ c. Identify the model of the specific hardware you need drivers for
- \_\_\_\_\_ d. Download and save the driver on your computer
- \_\_\_\_\_ e. The driver is now ready for installation

EXERCISE 3: ESSAY

Directions: Answer briefly in your own opinion.

1. How will you know if the device is not installed in your computer?
- \_\_\_\_\_
- \_\_\_\_\_
2. When you notice that there is a peripheral device that is not yet installed in your computer, what do you think is the possible action to do?
- \_\_\_\_\_
- \_\_\_\_\_
3. How to install the device driver in your computer?
- \_\_\_\_\_
- \_\_\_\_\_

THINGS TO REMEMBER!

Install drivers of peripherals/Devices for Windows 7

1. Hardware devices need drivers to function properly.
2. Drivers are small software that help the operating system use or “drive” the device.
3. Some of the drivers can be installed by Windows Update but when this offers no solution the drivers will need to be downloaded from the manufacturer’s website. There is also an option to install the drivers from the CD/DVD accompanying the hardware, but in most cases, it is better to download the most recent version. Most downloaded drivers install automatically by running a setup procedure and reboot the computer.
4. Device drivers can be 8-bit, 16-bit, 32-bit, and 64-bit based on the operating system Architecture.



EVALUATION: TRUE OR FALSE

Directions: Write True if the statement is correct, otherwise write False. Write your answers on the space provided.

- \_\_\_\_\_ 1. It is not necessary to determine the model of the device of your computer in obtaining the driver.
- \_\_\_\_\_ 2. Device driver signing is a process by which the operating system vendors verify the software and hardware products
- \_\_\_\_\_ 3. Hardware devices need drivers to function properly.
- \_\_\_\_\_ 4. Drivers are small software that help the operating system use or “drive” the device.
- \_\_\_\_\_ 5. To setup the installation, right click the extracted file and run as ‘administrator’ to install the device driver and make sure to follow the instruction.
- \_\_\_\_\_ 6. Most manufacturers have free drivers for their products online.
- \_\_\_\_\_ 7. The CD/DVD installer is the downloaded driver from the manufacturer’s website.
- \_\_\_\_\_ 8. Device drivers are software that enable operating system to interact with the hardware devices of the computer.
- \_\_\_\_\_ 9. Opening the Device Manager will tell the user which hardware drivers need to be installed by marking them with a yellow exclamation mark.
- \_\_\_\_\_ 10. Installation of the device driver is not required when you have completed the installation of operating system.

Prepared by:

JONALYN O. ROSARIO  
Pasay City North High School  
Tramo Campus