



COMPUTER SYSTEM SERVICING G10
QUARTER 2–WEEK 7: Install OS, Drivers’ Updates and Patches

Name of Learner: _____

Date: _____

Grade & Section: _____

Teacher: _____

MOST ESSENTIAL LEARNING COMPETENCY (MELC):

Install OS and drivers’ updates/ patches in accordance with manufacturer’s recommendations and requirements (TLE_IACSS9-12ICCS-IIa-j-30)

Objectives:

1. Identify how to install OS and driver’s update/patches;
2. Give the importance of windows security and driver’s updates.



TEACH ME

Learning Task 1:

Directions: Rearrange or unscramble the jumbled letters and use the given clue to form a proper word.

- | | | |
|-------|-------------------------|--|
| _____ | ERIRVD | - software that allows your computer to communicate with hardware devices. |
| _____ | GINTAOPER TEMSSY | - manages a computer's software hardware resources |
| _____ | TDEAPUS | - up to date version |
| _____ | LISNATL | - to set up |
| _____ | LAREHPIREPS | - input and output devices |

Learning Task 2:

Install OS and drivers’ updates/ patches in accordance with manufacturer’s recommendations and requirements

A **device driver** is a specific form of software application that enable communication with hardware devices. Without the essential device driver, the corresponding hardware device fails to work. A device driver serves as a translator between the hardware device and the programs or operating systems that use it.

The latest **Windows security patches** fix the vulnerabilities and errors in Windows and associated software, and they occasionally add new features. This basically summarizes why you should regularly run a Windows Update.

How to Install and Update Drivers

Windows 7

To certify that your Windows 7 PC is up to date with the latest Microsoft Windows updates follow the steps below:

- Click the Start Menu
- In the Search Bar, search for Windows Update
- Select the Windows Update from the top of the search list
- Click on the Check for Updates button. Select any updates that are found to install.

If Windows Update says your device is up to date, you have all the updates that are currently available.

Windows 10

Windows 10 automatically downloads and installs drivers on your devices. However, Microsoft has a set of drivers, they are not always the latest version, and the other drivers for specific devices are not found.

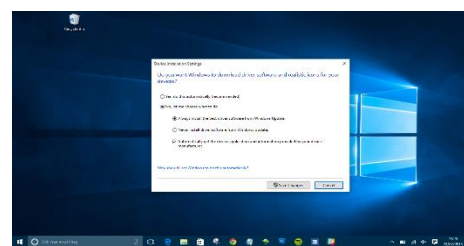
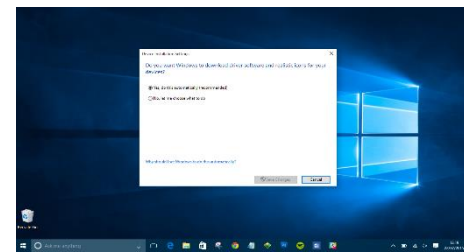
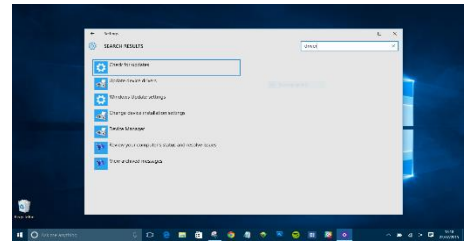
Windows 10 includes default drivers that work on a common source to ensure the hardware works successfully. If required, you can also install the drivers yourself. But, if the drivers in the system is identifying specific or there's another issue, you may have to search them out and visit the manufacturers' website of the hardware then install it manually.

The updated versions keep up with the latest security issues and adapt to Windows 10 changes to ensure a smoother experience. Also, driver updates fix compatibility problems, errors, broken code, and add features to the hardware.

How to Update Drivers on Windows 10: Automatic Installation

To change the settings for automatic driver installation on Windows 10, you need to find the driver settings page first.

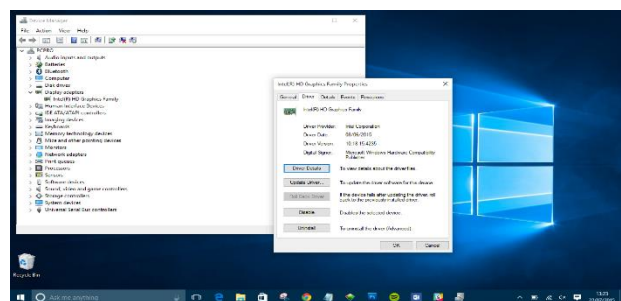
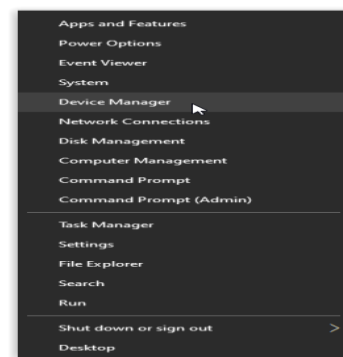
1. In the **Cortana search bar**, type **"Change device installation"** and click on **"Change device installation settings."**
2. Choose whether to let Windows automatically download the driver software or do it yourself. Automatic updating is the easiest method, whereby Windows will habitually check for driver updates and install them.
3. Clicking the second option to install drivers manually brings up several other options. If you don't want Windows to install the driver software, select the second option: **"Never install driver software from Windows Update."**
- 4.



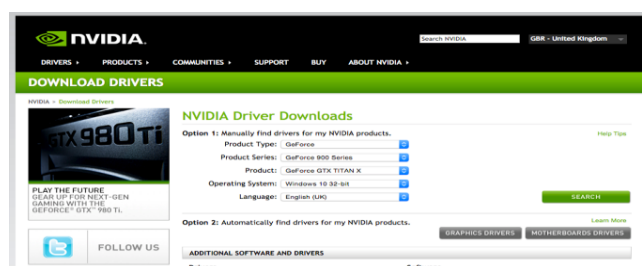
How to Manually Update Drivers in Windows 10

Here are some ways to update your drivers manually.

1. Right-click the start menu and select **"Device Manager."**
2. Find the device that requires a driver update and right-click it, then select **"Update Driver."** If you need details on the current driver, select **"Properties"** instead. From there, you can also update the driver.



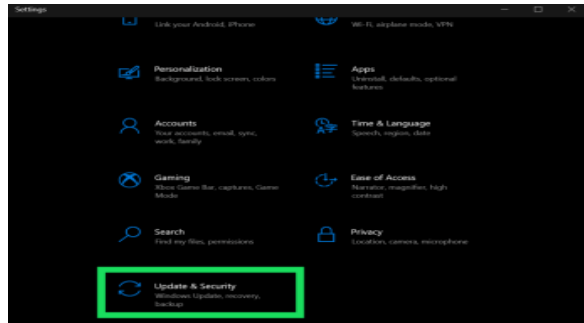
You can also update drivers through the device's company website. For example, if you have an NVIDIA graphics card installed, you can update the driver for the card via NVIDIA's official website.



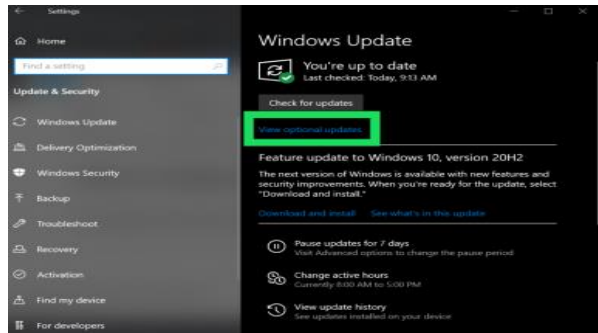
Once you've updated your drivers, your device should be ready to use with Windows 10. If all fails, you can factory reset Windows 10 and start renewed. Just be sure to save your existing personal files like images, music, and more before taking the action.

Check for Optional Updates

- Using the **Win+I** keyboard shortcut to access the device Settings. When the window opens, click on **'Update & Security.'**

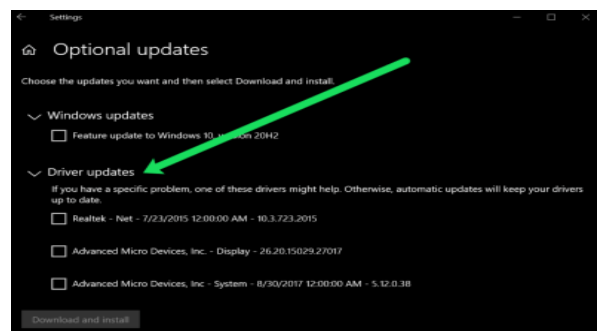


- Select **'Optional Updates.'**



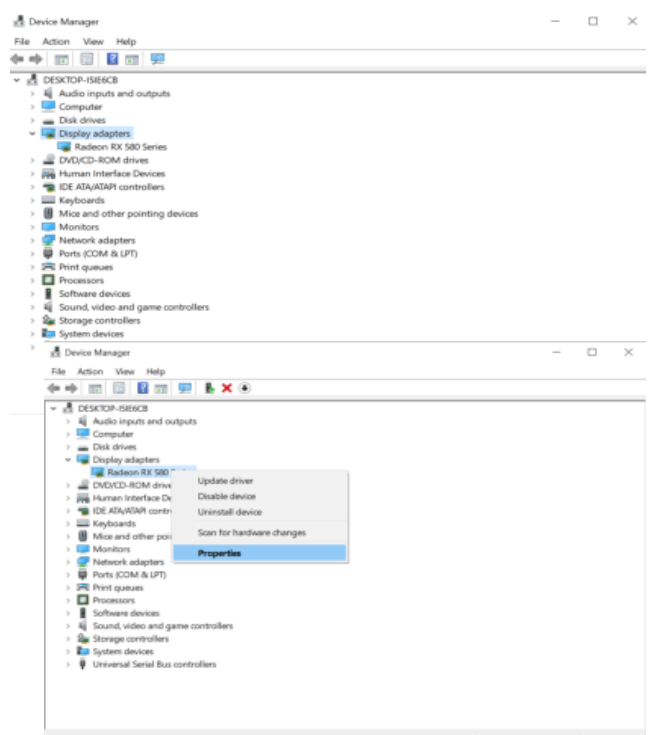
- Select the drop-down arrow next to **'Driver Updates'** and select the ones you'd like to install.

*You can also view which drivers are already installed by selecting the **'View Update History'** option on the Windows Update*

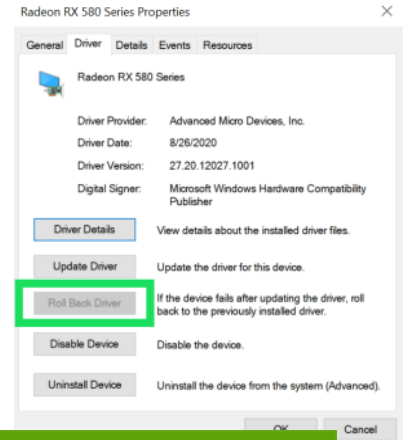


How to Rollback Driver Updates

- Open the Device Manager by using the **Win+X** keyboard shortcut and clicking on **'Device Manager'** (or type it into the search bar and hit enter). You can also access this menu directly using the **Win+R** keyboard command and typing **'devmgmt.msc,'** then enter.
- Double-click on the hardware that is giving you trouble. For example, *'display adapter'*.
- Right-click on the hardware that's giving you trouble and click on **'Properties.'**



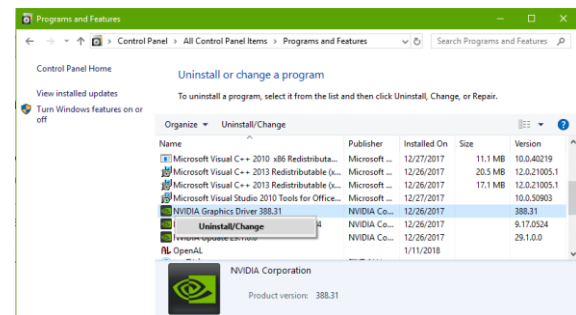
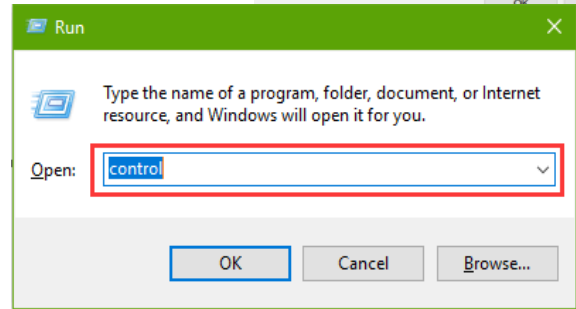
- Select the option to **Roll back** the driver. If the option is greyed out, a previous update is unavailable and therefore you may need to try one of the other methods.



How to Uninstall Drivers

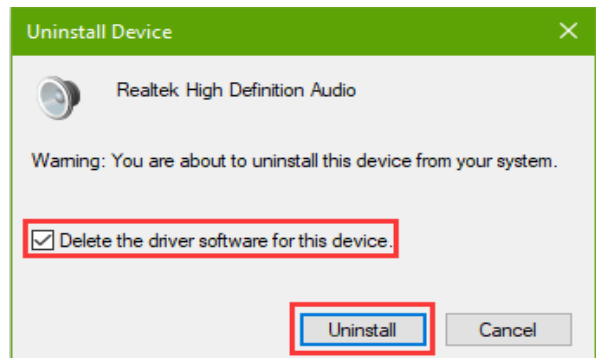
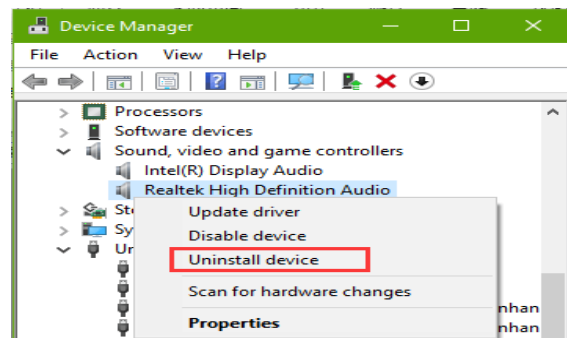
Uninstall Drivers from Programs and Features

- Open **Run** with **Windows shortcut keys Win + R**.
- Type **control** and hit the Enter key.
- In **Control Panel**, go to **Programs and Features**.
- Right-click the driver and select **Uninstall**.
- Restart the PC.



Remove Windows Drivers with Device Manager

- Use shortcut keys **Win + X** on Windows 10.
- Select **Device Manager**.
- Expand the entry. Right-click the problematic device and select **Uninstall device**.
- You may need to check the option Delete the driver software for this device, and then click the Uninstall button.
- Restart the PC.



LEARN MORE

Learning Task 3:

Direction: Read carefully and arrange the following. Mark the step as 1 if it is the first step, 2 if second, 3 if third and so on...

A. Update Drivers on Windows 10: Automatic Installation

- _____ Choose Windows automatically download the driver software
- _____ Click on “Change device installation settings.”
- _____ In the Cortana search bar, type “Change device installation”

B. Windows Update in Windows 7

- _____ Click on the Check for Updates button. Select any updates that are found to install.
- _____ In the Search Bar, search for Windows Update
- _____ Select the Windows Update from the top of the search list
- _____ Click the Start Menu

C. Check for Optional Updates

- _____ Select 'Optional Updates.'
- _____ Using the Win+I keyboard shortcut to access the device Settings. When the window opens, click on 'Update & Security.'
- _____ Select the drop-down arrow next to 'Driver Updates' and select the ones you'd like to install.

Learning Task 4:

Directions: Answer the following questions briefly.

1. Users are found complaining about some driver issues and errors such as audio problem or printer driver. What solution can you give?

2. Why is it important to install Windows updates /patches?



EVALUATE NOW

SUMMATIVE ASSESSMENT:

A. WRITTEN TASK:

A. Directions: Identify the word being described. Write your answer in the space provided.

- _____ 1. It is used to uninstall the current driver for a hardware device and then automatically install the previously installed driver.
- _____ 2. It allows users to view and control the hardware attached to the computer.
- _____ 3. It removes the variety of utility software or parts of it from a computer.
- _____ 4. It fixes the vulnerabilities and errors in Windows and associated software, and they occasionally add new features.
- _____ 5. It is a specific form of software application that enable communication with hardware devices.

B. Directions: Write TRUE if the statement is correct, otherwise write FALSE. Write your answer in the space provided.

- _____ 1. Most updates include security updates.
- _____ 2. Windows security updates to protect your computer from malicious attacks.
- _____ 3. Possible consequences of installing security updates are damaged software, loss of data, or identity theft.
- _____ 4. Installing software updates cannot access new features.
- _____ 5. It allows you to roll back a driver twice.

B. PERFORMANCE TASK

Directions: Deepen your understanding and knowledge about Install OS and driver's updates. Use some additional books and other resources. Make a short vlog or reflections about the importance of updates installations in your computer.

Vlog Rubrics				
	1	2	3	4
Content Accuracy	Most of the information was inaccurate or not clear.	Most information presented in writing was clear, but was not usually accurate.	Most information presented in writing was clear, accurate and thorough.	All information presented in writing was clear, accurate and thorough.
Organization	The presentation was difficult to follow due to disorganization of the utterances.	The presentation was not easy to follow.	The presentation was easy to follow.	The presentation was very easy to follow
Creativity	Lack of creative details	Include some details of creativeness	Include many details of creativeness	Providing full detail of creativeness

References:

<https://www.alphr.com/microsoft/microsoft-windows-10/1001237/how-to-install-and-update-drivers-on-windows-10/>
carleton.ca/its/help-centre/manually-check-and-install-windows-updates/
<https://www.drivethelife.com/windows-10/completely-remove-uninstall-drivers-windows-10.html>