



Care and Maintenance of Computer Hardware

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Agenda

- 1.Importance of maintaining hardware
- 2.Tips for proper care and handling
- 3.Common problems and how to avoid them
- 4.Cleaning and safety procedures
- 5.Summary and quiz

Importance of maintaining hardware

1. Enhanced performance and improve response time

- Reduce lag and improved response time
- Faster speeds

2. Extended lifespan of hardware

- Early issue detection
- Prevent of wear and tear



Importance of maintaining hardware

3.Data security and protection

- Protect against malware and viruses
- Data Integrity

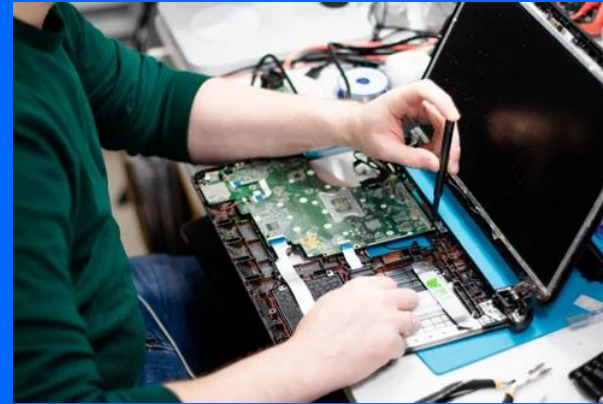


4.Extended lifespan of hardware

- Smooth s/w operations
- Optimal battery health

Tips for proper care and handling

1. Organize wire and cords
2. Clean CPU and other peripherals
3. Unplug to avoid overcharging
4. Run antivirus scan
5. Update OS
6. Update passwords
7. Unplug to avoid overcharging
8. Organize your data



Common problems and how to avoid them

1.Data loss

Problem: Accidental deletion, hardware failure, malware, or natural disaster can cause data loss.

Prevention: Regular backups, data security, human error mitigation

2.Electrical Problems

Problem: Outdated wiring, overloaded circuits, and improper installation can lead to electrical hazard.

Prevention: Regular inspection, proper wiring, overloaded prevention, unplug unused device

Cleaning and safety procedures

Cleaning procedures	Exterior Cleaning	<ol style="list-style-type: none"> 1. Shut Down the Computer 2. Use a Soft Cloth 3. Use Mild Cleaning Solution 4. Turn Keyboards upside down, and gently shake it, then wipe the surface with a damp cloth. 5. Clean the monitor screen with a microfiber cloth to avoid scratches.
Safety Procedures	Internal Cleaning	<ol style="list-style-type: none"> 1. Always turn off the computer and unplug it before cleaning inside. 2. Use compressed air to gently blow out dust from these components. Hold the fans in place while cleaning to prevent damage.
	Storage and Ports	Dust can accumulate in the ports (USB, HDMI, etc.), which may cause poor connections. Use compressed air to clean them out.
	Electrical Safety	Always unplug your computer before performing any maintenance or cleaning to avoid electrical shock.
	Handling Components Safely	Wear Antistatic Wristband To prevent static electricity from damaging delicate components.
	Storage and Environment	Keep drinks and liquids away from the computer hardware to avoid spillage.
	Safety with Cleaning Products	Avoid harsh chemical cleaners, as they can damage the surface or cause discoloration. Use products that are safe for electronics.



Summary and quiz

Regularly cleaning and updating your computer will ensure a longer lifespan of the device.

1. Which method is better use to clean dirt, dust, or hair around their computer on the outside case and on the keyboard?
 - a) Vacuum
 - b) Damp cloth with water
 - c) Feather duster

2. When cleaning a component and/or the computer, what should you do before you clean it?
 - a) Leave it in stand-by mode then clean
 - b) Leave the computer running while cleaning
 - c) Turn it off properly before cleaning

Thank you

