Lesson 4

Computer Maintenance

Computer Literacy BASICS: A Comprehensive Guide to IC³, 3rd Edition

Objectives

- Identify problems that can occur if hardware is not properly maintained.
- Identify routine maintenance that can be performed by users.
- Identify maintenance that should be performed by experienced professionals.

V	o	cal	bu	lar	y

cable management • ergonomic keyboard sectors corona wires • fragmentation • seek time • maintenance cookie touchpad defragmentation • Recycle Bin wireless keyboard

In

Introduction						
• There are of computing if equipment is not properly maintained, but there are						
measures that can be taken to those risks.						
• The type of maintenance determines whether a or you as the computer should perform the maintenance tasks.						
Maintenance Issues						
 A computer is no different from a car—it requires maintenance. 						
 Managing computer is an overlooked problem. 						
Cable management are available to organize and protect cables.						
Hardware Maintenance						
• One of the best ways to cut down on computer repair is through maintenance performed						
on a schedule.						
• As a general rule, you should a computer every 3–6 months.						
• In a environment, you should clean it more often.						
Keyboard and Mouse:						
 Use a can of air to remove dust from the keyboard. 						
Turn keyboard down if you liquid.						
• Clean mouse by removing the cover, removing inside, and then						
reassembling the mouse.						
Inkjet Printer:						
 Access self mode through printer's panel or use an inkjet cleaning 						
cartridge.						
• Use a small vacuum or roller sheets to clean the printer rollers.						
Laser Printer:						
Should be cleaned when print deteriorates or when you change the cartridge						
o Turn printer and unplug it.						
o Clean the toner opening.						
o paper fragments.						
Wipe up any toner and dust.						
the rollers.						
o Replace the cartridge.						
• brush or vacuum exposed wires.						

	and need to be changed, or output and production				
needs to be Thi	is can be enhanced by u	ipgrading various elei	ments.		
Computer Memory:			0		
• Adding to a co	omputer generally helps	s per	formance,,		
and usability.					
Keyboards:					
Ergonomic keyboards allow for a m					
• keyboard reduces	s an	d improves mobility.			
Mouse:					
 A variety of mouse devices are avai combinations. 	<u> </u>				
 Touchpads can be used instead of a and move the pointer accordingly. 	mouse. They	the positio	n of your		
Preventative Maintenance					
You should run	following a routine ma	aintenance schedule s	so that the computer can		
run and more effi			1		
Disk Defragmentation:	·				
 Occurs when a piece of data is together. 	up into ma	any pieces that are	stored close		
The sectors are stored in	of nonadiacent	. th	us creating fragmented		
files.					
• Disk time is one		_	computer's performance		
and can significantly			C 1		
Windows contains a defragmentation The contains a defrag					
physically the conte	ents of the disk to store	the pieces of each in	e configuously.		
Recycle Bin: • The Windows Recycle Bin is a		C C'1	1 C-1 1 1C 41!		
• The Windows Recycle Bin is a final	fuere e steriose device	area for files and	i folders before their		
• Right-click the Recycle Bin icon to			1' 1		
• Right-click an item to	commands	to restore, cut, delete	, or display properties.		
Temporary Files:					
• Created for three reasons:	C 41				
o Ton					
To act as aFor printing	net to prevent	data ioss			
1 6	C*1		1.1		
• Use Disk Cleanup utility to delete _	files a	and other files that are	e needed.		
Cookies:	C'1 41 4 XX7 1 '	, , , , , , , , , , , , , , , , , , ,	· c·		
	file that a Web site uses to identify a specific computer.				
• Used to gather information; not a	to	your computer's sec	urity.		
Specialized Maintenance					
Some maintenance or	should generally be	e performed by a com	puter professional:		
othe					
o Replacing other	components				
othe	processor				
o Replacing or	a hard disk				
 Replacing or adding addition 	nal RAM				
o, prii	nter, scanner problems				

Summary

In this lesson, you learned:

- A computer requires maintenance on a regular schedule to prevent problems such as the degrading of the hard disk performance and monitor trouble.
- Damaged and poorly maintained cables can prevent peripheral devices from communicating with the computer. Unorganized and unprotected cables can also create safety hazards. Cable management should therefore be part of a regular computer maintenance routine.
- To maintain the computer keyboard, use a can of compressed air to remove the dust from the keyboard every six months.
- Clean a mechanical mouse by removing its bottom cover, removing debris from the roller, and then reassembling the mouse.
- Printer maintenance helps to prevent many common printing problems. Many inkjet printers have a self-cleaning mode. If yours does not, use an inkjet cleaning cartridge to flush dirt and debris out of clogged printer nozzles. Clean a laser printer when you change the toner cartridge.
- Adding computer memory often provides the best value for increasing overall computer performance.
- All computers slow down as you work with them. To improve or maintain computer efficiency, periodically use Windows tools to defragment hard drives, empty the Recycle Bin, delete temporary files, and remove cookies.
- Some maintenance procedures are not suitable for the average computer user, and should be performed by a computer professional, such as replacing the power supply or opening the power supply case, replacing other electrical components, including the processor and RAM, and adding an internal hard disk.