Testing Computer Hardware By Jamie Leben February 9, 2013

"Multi-sense" inspection

- Look for swollen capacitors, blackened parts, excess dust, broken parts
- Listen for failing fans, noisy/clicking drives
- Smell for burnt/hot parts
- Touch power supplies, cases, cooling fins looking for hot parts
- If available, check logs for "disk0" errors ("disk0" is the designation for the main hard drive on which the operating system is installed)

Diagnostic software

- Built into PC as part of boot menu option (press F12 on Dells, F10 for HPs)
- Download .ISO
 - I have had good luck with Hiren's boot CD (<u>http://www.hirensbootcd.org/download/</u>)
 - Note the links on making bootable media (CD, USB)
 - Create bootable media
 - In Windows 7, right-click .ISO, left-click "burn disk image", follow prompts
- Boot from media
 - May need to change BIOS settings or hit boot option key (ESC, F9, F10, F12)
- Run "Memtest" to test RAM
 - Good (usually) once test 4 is reached
 - Other system info appears that is useful
 - Errors appear as white text with red background
- Run hard drive test
 - Boot Hiren, DOS programs, hard disk, IBM DFT, select drive, quick test