



CompTIA Strata - Fundamentals of Technology

1.0 Computer Hardware

1.1 Demonstrate the proper use of the following devices:

- Monitors
 - Adjust monitor settings (brightness, contrast, etc)
- Desktop
- Server
- Portable
 - Laptop
 - PDA
 - Smartphone
 - Netbook

1.2 Explain the characteristics and functions of internal and external storage devices

- CD/CD-RW Drive
- DVD/DVD-RW Drive
- Blu-Ray Disk Drive
- USB storage (solid state vs. magnetic disk)
- Multi card reader and writer
- Hard drives
- Mobile media devices (e.g. MP3 player or PDAs)

1.3 Explain the characteristics and functions of peripheral devices

- Digital camera
- Web camera
- Speaker
- Tuner
- Microphone
- Printer / scanner

1.4 Explain the characteristics and functions of core input devices

- Keyboard
- Mouse
- Tablet (touch screen)
- Numeric keypad
- Gamepad

2.0 Compatibility Issues and Common Errors

2.1 Identify basic compatibility issues between:

- Processor performance
- RAM memory
- USB (1.1, 2.0)
- Firewire
- PS/2
- Ethernet
- Wireless networks

2.2 Recognize common operational problems caused by hardware

- Critical error message or crash
- System lockup (freeze)
- Application will not start or load
- Cannot logon to network
- Driver / hardware compatibility
- Input device will not function

2.3 Demonstrate the ability to minimize risks

- Data loss
- Loss of service
- Damage to equipment

3.0 Health, Safety and Preventative Maintenance

3.1 Recognize safety hazards and identify corresponding guidelines

- Hazards
 - Fire
 - Flood
 - Electrical surges
 - Extreme storms
 - Environmental hazards
- Guidelines
 - Use of ESD equipment
 - Use of tools and equipment
 - Electricity and safety
 - Hazardous substances
 - Wire placement and safety
 - Environmental legislation and regulations (e.g. disposal of materials)

3.2 Identify preventative maintenance products, procedures, and how to use them

- Liquid cleaning compounds
- Types of materials to clean contacts and connections
- Compressed air
- Cleaning monitors
- Cleaning removable media devices
- Ventilation, dust and moisture control on the PC hardware interior
- Surge suppressors
- Replacing printer consumables

