

## 2.5 PC Maintenance

As you study this section, answer the following questions:

- Why is dust an enemy to a computer?
- What will too much or too little humidity do to a computer?
- When considering HVAC, what is the difference between a positive pressure system and a negative pressure system?
- What causes EMI? What can you do to prevent EMI problems?
- What types of materials can you use to clean internal PC components?
- When is it important to use an anti-static vacuum?
- How are backups related to preventive maintenance?
- What is the difference between a surge and a spike?
- Which type of device protects equipment from over-voltages?
- What is the difference between the way an online UPS provides power to a system and the way an offline UPS provides power?

In this section, you will learn to:

- Install a UPS
- Configure UPS settings

Key terms for this section include the following:

Term	Definition
Blackout	Complete power failure.
Brownout	An under-voltage that lasts seconds.
Electromagnetic interference (EMI)	A signal caused by motors, heavy machinery, and fluorescent lights that interferes with wired networking signals.
Heating, ventilation, and air conditioning (HVAC)	The system installed within buildings to control temperature by supplying heat and air conditioning.
Line conditioner	A device that modifies power signals to remove noise and create a smooth AC electrical signal.
Radio frequency interference (RFI)	Signals caused by cordless phones, microwave ovens, and wireless devices that interfere with wireless networking.
Sag	An under-voltage that lasts milliseconds.
Spike	An over-voltage that lasts milliseconds.
Standby power supply (SPS)	An offline devices that provides power when an under-voltage occurs.
Surge	An over-voltage that lasts seconds.

Surge suppressor	A device that protects systems from damage from a power surge by suppressing the over-voltage.
Surge protector	A device that protects systems from over-voltages by switching the system off.
Uninterruptible power supply (UPS)	A device that provides battery power to a computer in case of an under-voltage or power failure.

This section helps you prepare for the following certification exam objectives:

Exam	Objective
TestOut PC Pro	2.5 Implement disaster prevention and recovery methods 2.5.3 Install surge protection and a UPS
CompTIA 220-1002	4.3 Given a scenario, implement basic disaster prevention and recovery methods. <ul style="list-style-type: none"> <li>UPS</li> <li>Surge protector</li> </ul> 4.5 Explain environmental impacts and appropriate controls. <ul style="list-style-type: none"> <li>Power surges, brownouts, and blackouts <ul style="list-style-type: none"> <li>Battery backup</li> <li>Surge suppressor</li> </ul> </li> </ul>

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