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2.1 Protection and Safety

As you study this section, answer the following questions:

- Which specific computer components require special care that will protect your safety when handling them?
- What is the proper way to lift heavy objects?
- How can ESD be a hazard to electronic computer components?
- What is the difference between a static shielding bag and a static-resistant bag?
- What steps can you take to reduce ESD if you do not have the proper equipment handy?
- What is the MSDS? When would the information that it provides be important?

In this section, you will learn to:

- Use an anti-static mat and strap to protect yourself from ESD
- Implement appropriate grounding procedures

Key terms for this section include the following:

| Term | Definition |
|--------------------------------------|--|
| Capacitor | A device that stores an electric charge. |
| Cathode Ray Tube (CRT) | A vacuum tube used to display images that is commonly used in computer monitors. |
| Electrostatic Discharge (ESD) | The flow of electricity from one electrically charged object to another. |
| Material Safety Data Sheet (MSDS) | A document that contains safe handling and disposal processes for dangerous materials. |
| Peripheral device | A device that connects to a computer, such as a monitor or printer. |

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

| Exam | Objective |
|------------------|--|
| CompTIA 220-1002 | 4.4 Explain common safety procedures. Equipment grounding Proper component handling and storage Antistatic bags ESD straps ESD mats Self-grounding |
| | Toxic waste handling Batteries Toner CRT Cell phones |

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- Tablets
- Personal safety
 - Disconnect power before repairing PC
 - Remove jewelry
 - Lifting techniques
 - Weight limitations
 - Electrical fire safety
 - Cable management
 - Safety goggles
 - Air filter mask
- Compliance with government regulation
- 4.5 Explain environmental impacts and appropriate controls.
 - MSDS documentation for handling and disposal
 - Temperature, humidity level awareness, and proper ventilation
 - Protection from airborne particles
 - Enclosures
 - Air filters/mask
 - Dust and debris
 - Compliance to government regulations

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