## CHAPTER I
# Basic lab safety principles

In the following chapters, you will be assembling a computer. The following is a list of guidelines that help create a safe, efficient work environment:

- The workspace should be large enough to accommodate the system unit, the technician's tools, the testing equipment, and the electrostatic discharge (ESD) prevention equipment. Near the workbench, power outlets should be available to accommodate the system unit power and the power needs of other electrical devices.
- The ideal level of humidity in the workspace should be between 20%-30% to reduce the likelihood of ESD. It is also important to control the temperature so the workspace does not get too hot.
- The workbench should be a nonconductive surface. Additionally, it should have a flat, cleanable surface.
- The workspace should be distant from areas of heavy electrical equipment or concentrations of electronics. For example, a building's HVAC or phone system controls.
- The workspace should be free of dust. Dust can contaminate the workspace, causing premature damage to computer components. The work area should have a filtered air system to reduce dust and contaminants.
- Lighting should be adequate to see small details. Two different illumination forms are preferred: an adjustable lamp with a shade, and fluorescent lighting.
- Extreme variations of temperature can affect computer components. Temperatures should be maintained so they are consistent with the specifications of the components.
- Properly grounded AC electrical current is essential. Power outlets should be tested with an outlet tester for proper grounding.

# Tools of the trade

Most of the tools used in the computer assembly process are small hand tools. They are available individually or included as part of PC toolkits that can be purchased at computer stores. If a technician is working on laptops, then a small torx screwdriver will be necessary. It does not come in all PC toolkits. Figure 1 shows a typical toolset used by a technician.



The right tools can save a technician a lot of time and help the technician avoid damage to the equipment. Tool kits range widely in size, quality and price. PC Technicians typically have the following:

- An ESD wrist strap
- Straight head screwdriver (large and small)

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**RD Boyd**

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