

**PENANG SANGAM HIGH SCHOOL  
P.O.BOX 44, RAKIRAKI**

**LESSON NOTES 7**

**Year/Level: 13      Subjects: Computer Studies**

<b>Strand:</b>	CE 2 Computers and Application
<b>Sub-strand:</b>	CE13.2.1 Hardware, Software Installation and Basic Networking
<b>Content Learning Outcome:</b>	❖ Reasons for Installing hardware and software ❖ Safety Procedure

**Lesson Notes**

**Reasons for Upgrade**

- ✓ Routine maintenance - is where old hardware is replaced before it wears out or breaks down.
- ✓ Fault repair - If equipment develops a fault or break down, it needs to be repaired or replaced.
- ✓ Upgrade - An upgrade is when a component is installed into a computer to improve performance.  
User requirements, Compatibility, Increased capacity, increased speed, Software requirements, increased reliability

**Safety Procedures**

Electrostatic discharge (ESD) is a phenomenon that occurs when the charges on separated objects are unequal. One object has an excess positive or negative charge, compared to the other.

There are two ways to prevent problems from static electricity:

- i) Prevent the buildup of static charges
- ii) Prevent discharges or discharge the charge safely

Preventing static buildup

To reduce the buildup of static charges, follow these tips:

- ✓ Don't shuffle your feet as you walk
- ✓ Increase the humidity in the room or building to 50 to 60%- static charges can dissipate before growing large if the humidity level is sufficiently high.
- ✓ Keep yourself grounded as you work or move around.
- ✓ Wear cotton clothing which is less likely to generate static charges than is clothing of many synthetic materials.
- ✓ Remove carpeting from rooms where you service computers and from computer rooms.

Preventing static discharge

If a charge differential builds up, you can follow the following tips to prevent or reduce the likelihood of damage from static discharges:

- ✓ Equalize the charge safely. Unplug the equipment and then touch a metal portion of its chassis.
- ✓ If you move around as you work, keep yourself grounded with an antistatic wrist strap so that charges can't build up.

**Question**

- 1) Reason for upgrading IT systems in an organization?
- 2) What is reason to upgrade software?
- 3) Define Electrostatic discharge?
- 4) Disadvantage of upgrading operating system?