Electrical safety: Preliminary Design and Technology

Answers

Activity

Examine the information in relation to the use of electricity on the following web site < http://www.ccohs.ca/oshanswers/safety_haz/electrical.html and complete the passage below by using the words from the word bank.

disconnect	positively	non-conductive	exposed	hazardous
combustible	fuse	current	cords	guards
aware	access	rated	damage	immediately

Why is it so important to work safely with or near electricity?

The electrical <u>current</u> in regular businesses and homes has enough power to cause death by electrocution. Even changing a light bulb without unplugging the lamp can be <u>hazardous</u> because coming in contact with the live part of the socket could kill a person.

What are some general safety tips for working with or near electricity?

- Inspect tools, power cords, and electrical fittings for <u>damage</u> or wear prior to each use. Repair or replace damaged equipment <u>immediately</u>.
- Always tape cords to walls or floors when necessary. Nails and staples can damage <u>cords</u> causing fire and shock hazards.
- Use cords or equipment that is <u>rated</u> for the level of amperage or wattage that you are using.
- Always use the correct size **fuse**. Replacing a fuse with one of a larger size can cause excessive currents in the wiring and possibly start a fire.
- Be <u>aware</u> that unusually warm or hot outlets may be a sign that unsafe wiring conditions exist. Unplug any cords to these outlets and do not use until a qualified electrician has checked the wiring.
- Always use ladders made of wood or other <u>non-conductive</u> materials when working with or near electricity or power lines.

- Place halogen lights away from <u>combustible</u> materials such as cloth or curtains. Halogen lamps can become very hot and may be a fire hazard.
- Label all circuit breakers and fuse boxes clearly. Each switch should be
 <u>positively</u> identified as to which outlet or appliance it is for.
- Do not use outlets or cords that have <u>exposed</u> wiring.
- Do not use power tools with the **guards** removed.
- Do not block <u>access</u> to circuit breakers or fuse boxes.
- Do not touch a person or electrical apparatus in the event of an electrical accident. Always <u>disconnect</u> the current first.