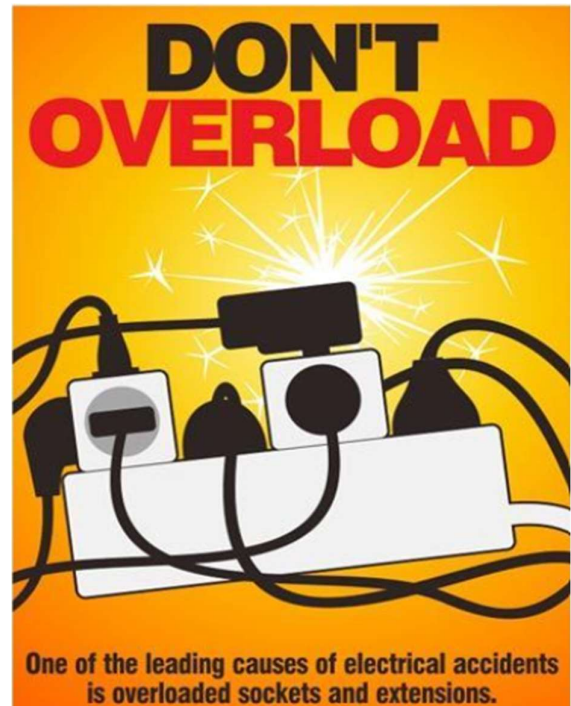


Toolbox Talk: TB#01

BASIC ELECTRICAL



With this toolbox talk we will shed light upon basic electrical safety geared towards non-electricians.

Extension cords/Power Strips

- Extension cords should not be used in place of permanent wiring.
- Ensure that cords are in proper working condition (the outer insulation should not be cracked/broken, the ground pin needs to be intact). Discard unsafe extension cords.
- Only licensed electricians are authorized to replace plugs, or splice cords.
- Extension cords need to be protected from motor vehicles, fork lifts, pallet jacks, heavy pedestrian traffic, etc.
- Power strips should not be permanently mounted to a wall or any other structure, even if the power strip has specific mounting fittings.
- Power strips or extension cords should not be connected to each other. Doing this can overload the circuit creating a potential fire hazard.

Circuit Overload Protection Devices:

These devices are designed to protect the wiring in a house/building and to prevent a potential fire.

Fuses- Break the circuit when too much current is flowing through the circuit. A small conductor inside the fuse heats up and melts when it reaches a specific temperature.

Circuit Breakers - As current increases in the circuit, an electromagnet inside the breaker generates increased magnetic force, eventually being great enough to pull the switch on the breaker from the “on” to the “off” position.

Recommended Practices:

- Use only power sockets, plugs and cables registered with SPRING Singapore. Under the Consumer Protection (Safety Requirements) Registration Scheme, products that meet the required safety standards will bear the “SAFETY Mark”.
- Conduct visual inspections on electrical machines before starting daily operation. Any electrical plugs, cords and wires found damaged or exposed should not be used.
- Ensure that electrical machines are properly grounded.
- Engage only electrical workers who are licensed by the Energy Market Authority (EMA) to carry out electrical work.
- Establish LOTO procedures for any work involving repair and maintenance of electrical machines.
- Do not clean electrical machines with flammable solvents.
- Do not overload electrical power points.
- Ensure that electrical machines are protected by over-current or overload protective devices.
- Keep power cords away from heat, water and oil.
- Always pull the electrical plug, not the cord

Dry your hands before touching electrical equipment



Do not overload power sockets

