Electrical Safety
At Construction Worksites

Use electricity safely at worksites and avoid injury and hazards
Use an industrial plug and not a household plug for any hand-held tools and electrical equipment in a worksite

**DO NOT**
re-wire the industrial plug yourself, ask your supervisor for assistance

**DO NOT**
use a household plug for any of your hand-held tools as it is not designed for use in worksite environment

An industrial plug is more robust than a household plug and is suitable for use in worksite environment
A Socket-outlet Assembly (SOA) provides industrial socket-outlets for easy and safe tapping of electricity supply. The built-in electrical protective devices further enhance safety in the use of hand-held tools and electrical equipment.

**DO NOT**
use household socket-outlets which are not suitable for worksite environment.
A Residual Current Circuit Breaker (RCCB) is installed to enhance electrical safety - Do NOT remove it from the circuit.

**DO NOT** remove the RCCB from the circuit.

RCCB with tripping sensitivity of 30mA.
Do NOT connect your hand-held tool or electrical equipment directly to a mobile generator, use a Socket-Outlet Assembly (SOA)

DO NOT

tap electricity directly from a mobile generator

Tap electricity using a Socket-Outlet Assembly (SOA)
Distribution boards (DB) are installed for a specific purpose, do NOT meddle with the wiring - tap electricity safely from a DB

**DO NOT**
meddle with the wiring in a distribution board (DB)

Tap electricity safely from a distribution board (DB)
Do NOT use a multi-adaptor for your hand-held tools, it may become overloaded and catch fire

**DO NOT**

use a multi-adaptor to tap electricity supply

Use a proper Socket-outlet Assembly (SOA)
Use industrial plugs and electrical accessories that are in a good and working condition.

Damaged industrial plug or socket-outlet should **NOT** be used.

Use industrial plugs and electrical accessories that are in a good and working condition.
Cables should be properly supported and secured.

Wiring installed in conduit and properly supported.

**Do NOT** leave long trailing cables on the ground.

Do NOT leave long length of cables on the floor, hang up the cable with proper support to prevent damage.
For safety reasons, a generator is barricaded and a “Danger” signboard is displayed to prevent unauthorised access. Do not enter into the barricaded area without permission.

For your own safety, do **NOT** enter into the barricaded area.

Mobile generator and the associated earthing system are tested and certified fit for use by an electrical worker licensed by EMA.

The earthing system for a mobile generator is installed for electrical safety. Do **NOT** remove any earthing cable or earth electrode.
DO NOT use a cable with frail insulation and without an industrial plug

DO NOT use a cable with frail insulation

Check and ensure that your hand-held tool, power cord and plug are in a good and working condition before you start work.
Portable generators without protective devices and proper earthing system should not be used under any circumstance as an alternate electricity supply source.

It is dangerous to use a portable generator for any hand-held tool with a metallic casing.

Check with your safety officer or the licensed electrical worker for alternate electricity supply.
Please report all electrical hazards at the construction site to your (site) safety officer immediately.


**Important Contacts**

**Energy Market Authority (EMA)**
Email: ema_lei@ema.gov.sg
Tel: 6835 8000

**SP Services Ltd - Customer Service**
Email: spservices@singaporepower.com.sg
Tel: 1800 - 222 2333

**SP PowerGrid Ltd**
**24 Hours Electricity Service Centre**
Tel: 1800 - 778 8888

**Singapore Police Force**
Tel: 999

**Singapore Civil Defence Force**
**Fire Engine / Ambulance**
Tel: 995

**Non-Emergency Ambulance**
Tel: 1777

**Fire Hazard Reporting**
Tel: 1800 - 280 0000

**Ministry of Manpower - Occupational Safety and Health Division**
Email: mom_oshd@mom.gov.sg
Tel: 6317 1111
