

KNOWLEDGE

An electrical shock from an outlet at home (120V) may be enough to kill a person.

- True
- False

Electrical Safety, slide # 5

The most important electrical current characteristic that determines the health effects in case of electrocution is:

- Voltage
- Resistance
- Complexity
- Amperage

Electrical Safety, slide # 6

A ground fault circuit interrupter (GFCI) is required when using an electric tool in a wet area because it will:

- Protect the equipment
- Prevent electrocution
- Prevent fires
- Prevent circuit overheating

Electrical Safety, slide # 7

A circuit breaker is designed to:

- Protect people from random electric shocks
- Protect the equipment when a circuit is overloaded
- Reduce the risk of fire by preventing wire overheating
- Repel water when tools are used in a wet location

Electrical Safety, slide # 7

When working with hybrid vehicles, which of the following is true:

- Follow battery manufacturer's removal procedures
- Follow car manufacturer's battery removal procedures
- Use gloves label '0' or 'class 0'
- Use leather or cloth/leather combination gloves
- Test for stray current

Electrical Safety, slide # 14



In case of an emergency involving electrical shock, you should do which of the following?

- ✓ Turn off the source of electrical current
- ~~○ Touch the victim if still in contact with the “live” circuit~~
- ✓ Pry the victim from the energized circuit using plastic or wood objects
- ~~○ Move the victim to fresh air as soon as possible~~
- ✓ Use a defibrillator (AED) if the victim is breathing but has rapid irregular heart rhythm
- ✓ Perform CPR if the victim is not breathing and you’ve been trained

Electrical Safety, slide # 15

If electrical work must be performed while standing on a ladder, the ladder must be made of which kind material?

- ~~○ Conductive~~
- ✓ Non-conductive
- ✓ Plastic
- ~~○ Aluminum~~
- ✓ Fiberglass

Electrical Safety, slide # 4

OSHA requires that in a shop, electrical panels:

- ~~○ Have unprotected circuit breaker openings, with wires visible~~
- ✓ Have a label that identifies the equipment serviced by each breaker
- ✓ Have at least 36 inches of clear space in front of the panel door
- ~~○ Are permanently locked~~
- ✓ Are unobstructed at all times

Electrical Safety, slide # 12

Testing a GFCI with a running tool plugged in is:

- ✓ The best way to ensure the outlet is wired correctly
- ~~○ The worst way to ensure the outlet is wired correctly~~
- ~~○ Not needed if the “test” and “retest” buttons work~~
- ~~○ Not permitted and not recommended~~

Electrical Safety, slide # 13

Which of the following health effects can occur when a person comes in contact with a live electrical wire?

- ✓ Rapid heart beat
- ✓ Brain death – from lack of oxygen to the brain
- ✓ Muscle contractions
- ✓ Blood clots
- ✓ Broken bones or torn ligaments
- ✓ Burns

Electrical Safety, slides # 5 & 7

