



## Electrical Injury Emergency Response



### STEPS



**⚠ DANGER**  
Shock Hazard  
Arc Flash Hazard  
Don't become a  
second victim!

**911**  
EMERGENCY



Scan for more information  
at [leelino.org/Field\\_Guide](http://leelino.org/Field_Guide)



**1** Stop!!  
**Do not touch** the person.  
Look for the hazard.



**2** Shut off power or if safe  
to approach, rescue the  
person with a certified  
rescue hook.



**3** Assess scene safety and  
victim responsiveness.



**4** Call 911 then call field  
emergency number,  
preferably from a landline.



**5** Get an AED. If necessary  
start CPR and apply AED  
as soon as possible.



**6** Barricade and control access.  
Request assistance from  
by-standers if available.



**7** Monitor for any additional or  
worsening symptoms until  
relieved by arriving EMS.



# More Information



## DOs and DON'Ts

- **DO** include the emergency response plan in the job briefing.
- **DON'T** touch the person until power is off or the source is removed.
- **DO** look for electrical hazards such as water on floor, wires and cords, and open panels.
- **DON'T** approach a victim on a metal deck or walk into water unless power is shut off.
- **DO** use land-line where possible to ensure fastest response time. Use a cell if necessary –ensure location is understood!
- **DON'T** pull the fire alarm since this will evacuate the building and confuse the response.
- **DO** ask others present to help call 911 and get the AED.
- **DON'T** send the victim away in a taxi, personal or public vehicle. Use the EMS ambulance.
- **DO** call for electrical support ASAP: Supervisors, EHS or any QEW.

## FACTS

- A person receiving a shock may not be able to let go until power is shut off. **Don't become a second victim!**
- A land-line is the best way to ensure fastest response by EMS because it goes straight to a local dispatcher registering the exact location of the incident.
- A severe shock can cause heart fibrillation. Delayed heart fibrillation may occur up to 24 hours after a shock, so **evaluation by a health professional is required** (an EKG will be performed).
- Look for "**Obvious signs of life**". **CPR with AED use is recommended** when the answer to BOTH questions is NO.
  - Is victim responsive?
  - Is victim breathing normally?

**NOTE - gasps and grunts are NOT normal breathing**
- Where CPR and AED use is recommended and no AED is available, CPR alone should immediately begin and continue until EMS arrives or victim becomes responsive.
- CPR with AED use - Follow AED prompts
- **CPR compression ratios: 100 - 120 per minute**
  - With breaths - 30 compressions then 2 breaths
  - Compression alone - 100 - 120 per minute

## SHOCK INCIDENTS

**All shocks must be reported! Tell your supervisor.**

**NOTE: The following are NOT minor shocks! Call 911 IMMEDIATELY regardless of apparent severity or injury:**

- Any loss of consciousness (even if employee is subsequently awake and talking)
- Any reported or witnessed prolonged contact (unable to let go)
- Any fall or trauma
- Contact has caused burns/injuries
- All high voltage incidents (>750v) or lightning strikes
- Skin is not intact (i.e. an open wound) at point of contact
- Skin is wet from sweat or humidity
- Possibility that current passed through the heart or head.
- Employee has implanted medical device (includes but not limited to pacemaker, implantable defibrillator etc.)
- Employee has serious chronic medical condition which may increase the risk of injury/illness from electrical contact.



**If in doubt, ALWAYS call 911!**

## ARC FLASH INCIDENT FIRST AID

- Summon help (call 911 or facility emergency number)
- Ensure circuits are turned off at source
- Prior to removing any arc flash PPE, determine consciousness of victim and ask if there is any known injury and they are breathing OK.
- Carefully remove arc flash clothing from victim to expose any potentially injured area
- Monitor breathing and restrict victim from excessive movement. Monitor for shock.
- Determine if the victim received an electrical shock during the event.
- Only move victim out of immediate area when it is unsafe to stay. Wait for emergency help to arrive.
- Report all arc flash incidents to your supervisor.



## QEW PREP

### PRE-JOB EMERGENCY PREPARATION

- |  |   |
|--|---|
| <input type="checkbox"/> Power shutoff nearby and/or rescue hook available?                                    | <input type="checkbox"/> AED nearby?                                  |
| <input type="checkbox"/> Landline phone (preferable) available for 911?<br>Does cell phone have strong signal? | <input type="checkbox"/> Fire extinguisher nearby?                    |
| <input type="checkbox"/> Clear exit path?  | <input type="checkbox"/> 2nd person identified, trained and briefed?  |
|  | <input type="checkbox"/> Emergency lights checked or have flashlight? |