Temporary lighting

List temporary lighting locations on site:

Adequate lighting must be provided in areas where workers are present. Additional task lighting must also be considered. Entrance and exit spaces must also be illuminated.

Explain dangers

- Electricians have been electrocuted while setting up temporary lighting.
- Frequent relocation of circuits can loosen connections, break insulation, and create other shock or electrocution hazards.
- Steel door frames can become electrified when doors close on wires.
- Ladders, pipe, scaffold frames, and other objects can bump stringers, leading to electrical contact and shock.
- Dead, missing, or low-wattage bulbs, inadequate power, and blown fuses can leave stairwells, basements, and other areas poorly lit or with no lighting at all, increasing the risk of injury.

Identify controls

- Remember that lighting levels should be at least 55 lux (5-ft. candles). That means 150watt bulbs that are:
 - Suspended 2.4 m (8 ft.) high and 7.5 m (25 ft.) apart OR
 - Suspended 3 m (10 ft.) high and 6 m (20 ft.) apart.
- Suspend lights at least 2.4 m (8 ft.) off the floor. Do not hang lights by the cord unless they are designed that way.

- Use plastic straps or insulated wiring instead of metal (e.g., nails, bare wire, etc.) to secure the lights.
- Install bulbs so that they light as large an area as possible.
- Do not remove bulbs for personal use or task lighting
- Protect lights against damage by accidental contact. Use plastic cages to protect the bulbs
- Keep branch lighting circuits that feed temporary lighting entirely separate from power circuits.
- Protect branch lighting circuits by a breaker or fuse with a 15-amp rating. An electrician should connect the circuits directly into a distribution panel. Make sure lockout/tagging procedures are followed before connecting the wiring to the panel.
- Use a ground fault circuit interrupter (GFCI) when temporary lighting is outside or in wet locations.
- Do not use temporary lighting circuits as extension cords. If a fuse blows, finding your way to the panel in the dark can be dangerous.
- Make sure that wires do not contact steel doors or steel door frames. Ensure that wires cannot be pinched or cut by doors.

Demonstrate

(4 ft., 6 in.)?

With your crew, review the following checklist:		
	Are work areas well lit?	
	Are burned-out bulbs promptly replaced?	
	Are they replaced with new bulbs or bulbs taken from another location?	
	Are stringers promptly relocated when bulbs are blocked by the installation of new ceilings ducts, piping, and other features?	
	Are lamp holders hard-usage type?	
	Are cords for sockets supported every 1.4 m	

Electricity

