

Levels of PPE for Hazard / Risk Category per NFPA 70E

These requirements are based on NFPA 70E 2015 edition.

1	Arc rated clothing of 4 cal/cm of long sleeves and pants or arc rated coverall and outer clothing such as a parka or rain gear. Arc rated face shield or arc flash suit hood. Non-conductive safety glasses, leather safety footwear and a hard hat with optional liner, hearing protection (ear canal inserts), heavy duty leather gloves.
2	Arc rated of 8cal/cm long sleeves and pants or coverall and outer clothing such as a parka or rain gear, Arc rated flash suit hood or arc rated face shield with arc rated balaclava, hearing protection (ear canal inserts), non-conductive safety glasses, leather safety footwear, and heavy duty leather gloves.
3	Arc rated 25 cal/cm long sleeve shirt, pants and. Arc outer clothing such as a parka or rain gear rated suit with hood. Hard hat, Non-conductive safety glasses or goggles, hearing protection (ear canal inserts), arc rated gloves, leather safety footwear.
4	Arc rated 40 cal/cm long sleeve shirt and pants under arc flash rated suit with arc rated flash suit hood, hard hat, Non-conductive safety glasses or goggles, hearing protection (ear canal inserts), arc rated gloves, leather safety footwear.

Note 1: Hard hat requirements for electrical workers are:

- Class G: are designed to decrease the impact of falling objects and to lessen the risk of being exposed to low-voltage electrical conductors. They are tested at 2,200 volts of electrical charge to be certified.
- Class E: are also intended to decrease the impact of falling objects and lessen the risk of coming into contact with high-voltage electrical conductors. Tested at 20,000 volts of electrical charge.
- Recognize that the voltages stated for hard hats are not indications of the voltage at which the helmets protect the wearer.

Note 2: Safety footwear for electrical qualified workers must be Non-conductive footwear marked “EH”. This footwear meets Electrical Hazard Protection ANSI Z41 PT99 standards to provide protection from open circuits. The soles of Electrical Hazard footwear provide a safety barrier to protect employees from open electrical currents up to 600 volts. Electrical Footwear with this rating is insulated to help ground electricity from accidental contact with live circuits or electrical equipment. These “EH” rated footwear can have either steel or composite safety toes with their outer coating in good condition completely covering the steel toe.

Note 3: For electrical hazard / risk category’s 1 thru 4 socks and underwear consisting of meltable fibers such as acetate, nylon, polyester, polypropylene and spandex should not be worn. (an incidental amount of elastic used in nonmelting fabric underwear or socks is permitted.)