



Look Safe...Feel Safe... Dress Safe

Greater Houston
Chapter

Electricians, and anyone working on or near electrical apparatus, must wear special personal protective equipment (PPE).

This PPE must be manufactured in conformance with special American National Standards Institute (ANSI) standards.

Personal Protective Equipment:

OSHA's 1910 (Subpart S—Electrical) Standard...and OSHA's 1926 (Subpart K—Electrical) Standard...require employees working in areas where there are potential electrical hazards to be provided with, and shall use, electrical protective equipment (and clothing) that is appropriate for the specific parts of the body to be protected, and for the work to be performed.

Now, let's discuss equipment, and clothing, how they protect the worker, and how the worker determines what and when he uses this special gear:

- Non-conductive head protection (hard hats)
- Eye/face protection goggles/masks
- Non-conductive tools (insulated)
- Fuse handling equipment (insulated)
- Ropes and handlines (non-conductive)
- Protective face shields
- Respirators (half-face/full-face)
- Rubber insulating gloves
- Rubber insulating matting
- Rubber insulating blankets
- Rubber insulating covers
- Rubber insulating line hoses
- Rubber insulating sleeves
- Protective leather gloves over insulating gloves

ANSI (American National Standards Institute) Standards, regarding PPE for electrical workers, are listed as follows:

Item	ANSI/ASTM Standard Number*
Head Protection.....	ANSI Z89.2 (1971) Class B
Eye and Face Protection.....	ANSI Z87.1 (1979)
Blankets.....	ANSI/ASTM D1048 (1981)
Hoods.....	ANSI/ASTM D1049 (1983)
Line Hoses.....	ANSI/ASTM D1050 (1985)
Sleeves.....	ANSI/ASTM D1051 (1981)
Gloves.....	ANSI/ASTM D120 (1984)
Mats.....	ANSI/ASTM D178 (1981)

*All above "Rubber Insulating"

Rubber gloves are required to be tested each time they are used and must be worn under leather gloves to protect them against mechanical damage, oil, and grease.

Employees are required to wear outer clothing with full length sleeves with the sleeves rolled down for better protection. The main function of rubber gloves is to protect employees from electrical hazards when they are working on or in proximity to live circuits and parts in or near electrical equipment.

Electricians should be familiar with the standards pertaining to the type of protective equipment that they must wear and how such equipment must be cared for.

To perform a job safely, the proper protective clothing and tools must be used in a safe manner. Safety should always be practiced by electricians when working with electrical circuits.