

SAFETY TALK

Electrical Hand and Arm Protection

Working on live lines or energized circuits and equipment is extremely hazardous. It results in many preventable injuries and fatalities every year. When conducting this type of work you are required to use protective rubber gloves and sleeves. Therefore it is imperative that you are familiar with PPE rated for the highest voltage exposure that you may encounter. And, always wear protector gloves over rubber gloves unless the limited work meets the allowed exceptions in the OSHA standard.

When working with live lines or energized circuits, glove classes run from Class 00 for 500 volts up to Class 4 for 36,000 volts. You should be aware as a general rule of thumb is rubber protective sleeves should meet or exceed the class rating of the rubber glove.

| Class | Maximum Voltage |
|-------|-----------------|
| 00 | 500 |
| 0 | 1,000 |
| 1 | 7,500 |
| 2 | 17,000 |
| 3 | 26,000 |
| 4 | 36,000 |



Gloves and sleeves should also be worn when working within extended reach of an energized circuit or piece of equipment, as well as when working on them directly. Extended reach means that you are within two feet of any energized circuit or equipment or a conductive object is within two feet of an energized circuit or equipment. If you are working from an aerial lift or bucket, always wear rubber gloves “cradle-to-cradle.” Cradle-to-cradle means that you wear the rubber protective equipment from the time you are on the ground, prior to commencing work, to the time that you are back on the ground after all the work is complete.

Additionally, you should wear rubber protective-insulating gloves and sleeves “lock- to-lock,” when working on pad mounted equipment. Lock-to-lock means that you are wearing rubber gloves and sleeves prior to the time the pad mounted equipment is unlocked through the time work is finished and the pad mounted equipment is relocked following lock-out-tag-out procedures. You should always have gloves and sleeves electrically tested before being issued for use. You must always conduct visual inspections before each use. You must test rubber gloves electrically at a minimum of every 6 months and sleeves should be tested at a minimum of every 12 months.

Gloves must be air-tested for any possible defects such as cuts, holes, swells, tears, softening, hardening, embedded objects, and/or changes in texture before use as well. If you observe any of these conditions remove the PPE from service.

DISCUSSION QUESTIONS

What’s the highest level of protection provided by class 00 gloves?

Should you wear protective gloves over rubber gloves? Why or Why not?





MEETING / TRAINING

Attendance Roster

COMPANY: _____

_____ SAFETY MEETING

JOB/DEPT: _____

_____ SAFETY TRAINING

DATE: ___/___/___

TIME: _____

TOPICS ADDRESSED: _____

EMPLOYEE'S SIGNATURES:

| | | |
|-------|-------|-------|
| _____ | _____ | _____ |
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EMPLOYEE SUGGESTIONS AND RECOMMENDATIONS: _____

ACTION TAKEN: _____

Supervisor's Signature

___/___/___
Date

Safety Coordinator's Signature

___/___/___
Date