Appendix G: Personal Protective Equipment (PPE)

NFPA 70E 2018 Table 130.7 (C)(15)(c) - Arc-Flash PPE Category

Risk Category	Min. Arc Rating of PPE	PPE Requirements – NFPA -70E 2018
1	4 cal/cm ²	Arc-rated long-sleeve shirt and pants or arc-rated
		coverall
		Arc-rated face shield ^b or arc flash suit hood
		3. Arc-rated jacket, parka, rainwear, or hard hat
		liner (AN)
		Protective Equipment
		4. Hard hat
		5. Safety glasses or safety goggles (SR)
		Hearing protection (ear canal inserts) ^c Heavy-duty leather gloves ^d
		7. Heavy-duty leather gloves ^d 8. Leather footwear (AN)
2	8 cal/cm ²	Arc-rated long-sleeve shirt and pants or
2	o cal/cm	Arc-rated coverall
		Arc-rated flash suit hood or arc-rated face shield ^b
		and arc-rated balaclava
		Arc-rated jacket, parka, rainwear, or hard hat
		liner (AN)
		Protective Equipment
		4. Hard hat
		Safety glasses or safety goggles (SR)
		6. Hearing protection (ear canal inserts) ^c
		7. Heavy-duty leather gloves ^d
		8. Leather footwear (AN)
3	25 cal/cm ²	Arc-rated long-sleeve shirt (AR)
		2. Arc-rated pants (AR)
		Arc-rated coverall (AR)
		Arc-rated flash suit jacket (AR)
		5. Arc-rated flash suit pants (AR)
		6. Arc-rated flash suit hood
		7. Arc-rated gloves ^d
		8. Arc-rated jacket, parka, rainwear, or hard hat
		liner (AN) Protective Equipment
		9. Hard hat
		10. Safety glasses or safety goggles (SR)
		11. Hearing protection (ear canal inserts) ^c
		12. Heavy-duty leather gloves ^d
		13. Leather footwear (AN)
4	40 cal/cm ²	Arc-rated long-sleeve shirt (AR)
	10 000,011	2. Arc-rated pants (AR)
		3. Arc-rated coverall (AR)
		Arc-rated flash suit jacket (AR)
		5. Arc-rated flash suit pants (AR)
		Arc-rated flash suit hood
		7. Arc-rated gloves ^d
		8. Arc-rated jacket, parka, rainwear, or hard hat
		liner (AN)
		Protective Equipment
		9. Hard hat
		10. Safety glasses or safety goggles (SR)
		11. Hearing protection (ear canal inserts) ^c
		12. Heavy-duty leather gloves ^d
		13. Leather footwear (AN)

AN: As needed (optional). AR: As required. SR: Selection required

^a Arc rating is defined in Article 100.

^b Face shields are to have wrap-around guarding to protect not only the face but also the forehead, ears,

and neck, or, alternatively, an arc-rated arc flash suit hood is required to be worn.

- ^c Other types of hearing protection are permitted to be used in lieu of or in addition to ear canal inserts provided they are worn under an arc-rated arc flash suit hood.
- ^d If rubber insulating gloves with leather protectors are used, additional leather or arc-rated gloves are not required. The combination of rubber insulated gloves with leather protectors satisfies the arc flash protection requirement.

Figure 1: PPE Clothing Based on Hazard Risk Levels

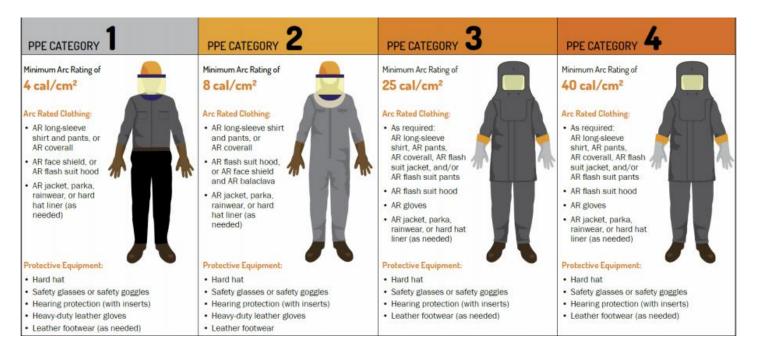


Figure 2: Voltages for Insulated Rubber Gloves

Rubber Glove Class	Protection Against Voltage Up To:
00	500 V
0	1,000 V
1	7,500 V
2	17,000 V
3	26,500 V
4	36,000 V