

Appendix F: PPE When the Incident Energy Analysis Method Is Used

NFPA 70E 2018 Table 130.5 (G) – Selection of Arc-Rated Clothing and Other PPE When the Incident Energy Analysis Method Is Used

Incident energy exposure equal to 1.2 cal/cm ² up to 12 cal/cm ²	Incident energy exposure greater than 12 cal/cm ²
Arc-rated clothing with an arc rating equal to or greater than the estimated incident energy	Arc-rated clothing with an arc rating equal to or greater than the estimated incident energy
Long-sleeve shirt and pants or coverall or arc flash suit (SR)	Long-sleeve shirt and pants or coverall or arc flash suit (SR)
Arc-rated face shield and arc-rated balaclava or arc flash suit hood (SR) ^b	Arc-rated arc flash suit hood
Arc-rated outerwear(e.g. jacket, parka, rainwear, hard hat liner) (AN)	Arc-rated outerwear(e.g. jacket, parka, rainwear, hard hat liner) (AN)
Heavy-duty leather gloves, arc-rated gloves, or rubber insulating gloves with leather protectors(SR) ^c	Heavy-duty leather gloves, arc-rated gloves, or rubber insulating gloves with leather protectors(SR) ^c
Hard Hat	Hard Hat
Safety Glasses or Safety Goggles (SR)	Safety Glasses or Safety Goggles (SR)
Hearing Protection	Hearing Protection
Leather Footwear	Leather Footwear

SR: Selection of one in group is required

AN: As needed

^a Arc ratings can be for a single layer, such as an arc-rated shirt and pants or a coverall, or for an arc flash suit or a multi-layer system if tested as a combination consisting of an arc-rated shirt and pants, coverall, and arc flash suit.

^b Face shields with a wrap-around guarding to protect the face, chin, forehead, ears, and neck area are required by 130.7 (C)(10)(c). Where the back of the head is inside the arc flash boundary, a balaclava or an arc flash hood shall be required for full head and neck protection.

^c Rubber insulating gloves with leather protectors provide arc flash protection in addition to shock protection. Higher class rubber insulating gloves with leather protectors, due to their increased material thickness, provide increased arc flash protection.