

PPE Selection For Incident Energy Assessments (Based Upon NFPA 70E Informative Annex Table H.3(b))

Incident Energy Exposure	Required Protective Clothing	Other Required PPE
$\leq 1.2 \text{ cal/cm}^2$	Shirt (long sleeve) and pants (long) or coverall	Face shield for projectile protection (AN) Safety glasses or safety goggle (SR) Hearing protection Heavy-duty leather gloves or rubber insulating gloves with leather protectors (AN)
$\geq 1.2 \text{ to } 12 \text{ cal/cm}^2$	Arc-rated long sleeve shirt and arc-rated pants or arc-rated coverall or arc-rated flash suit (SR) (See Note 3) Arc-rated face shield and arc-rated balaclava or arc-rated flash suit hood (SR) Arc-rated jacket, parka or rainwear (AN)	Hard Hat Arc-rated hard hat liner (AN) Safety glasses or safety goggle (SR) Hearing protection Heavy-duty leather gloves or rubber insulating gloves with leather protectors (SR) (See Note 4) Leather Footwear
$\geq 12 \text{ to } 40 \text{ cal/cm}^2$	Arc-rated long sleeve shirt and arc-rated pants or arc-rated coverall and/or arc-flash suit (SR) Arc-rated face shield and arc-rated balaclava or arc-rated flash suit hood (SR) Arc-rated jacket, parka or rainwear (AN)	Hard Hat Arc-rated hard hat liner (AN) Safety glasses or safety goggle (SR) Hearing protection Heavy-duty leather gloves or rubber insulating gloves with leather protectors (SR) (See Note 4) Leather Footwear
$> 40 \text{ cal/cm}^2$	Above 40 cal/cm^2 , other considerations related to energy exposure during an arc flash event need to be considered when selecting the appropriate PPE, specifically regarding blast pressure that may make certain PPE ineffective in protecting personnel.	Above 40 cal/cm^2 , other considerations related to energy exposure during an arc flash event need to be considered when selecting the appropriate PPE, specifically regarding blast pressure that may make certain PPE ineffective in protecting personnel.

AN: As needed (in addition to the protective clothing and PPE required by 130.5(C)(1))

SR: Selection of one in group is required by 130.5(C)(1)

Notes:

- (1) Face Shields with wrap-around guarding to protect the face, chin, forehead, ears and neck area are required by 130.7(C)(10) C. For full head and neck protection, use a balaclava or an arc flash hood.
- (2) All items not designated "AN" are required by 130.7(C)
- (3) Arc ratings can be for a single layer, such as an arc-rated shirt and pants or a coverall, or for an arc-rated suit or a multi-layer system consisting of a combination of arc-rated shirt and pants, coverall, and arc flash suit.
- (4) 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.