



## ELECTRICAL SAFETY: PERSONAL PROTECTION EQUIPMENT GUIDE

Required Personal Protective Equipment (PPE)	
PPE Category	PPE
1	<p><b>Arc-Rated Clothing, Minimum Arc Rating of 4 cal/cm<sup>2</sup></b> (see Note 1) Arc-rated long-sleeve shirt and pants or arc-rated coverall Arc-rated face shield (see Note 2) or arc flash suit hood Arc-rated jacket, parka, rainwear, or hard hat liner (AN)</p> <p><b>Protective Equipment</b> Hard hat Safety glasses or safety goggles (SR) Hearing protection (ear canal insert) Heavy duty leather gloves (see Note 3) Leather footwear (AN)</p>
2	<p><b>Arc-Rated Clothing, Minimum Arc Rating of 8 cal/cm<sup>2</sup></b> (see Note 1) Arc-rated long-sleeve shirt and pants or arc-rated coverall Arc-rated flash suit hood or arc-rated face shield (see Note 2) and arc-rated balaclava Arc-rated jacket, parka, rainwear, or hard hat liner (AN)</p> <p><b>Protective Equipment</b> Hard hat Safety glasses or safety goggles (SR) Hearing protection (ear canal insert) Heavy duty leather gloves (see Note 3) Leather footwear</p>
3	<p><b>Arc-Rated Clothing Selected so That the System Arc Rating Meets the Required Minimum Arc Rating of 25 cal/cm<sup>2</sup></b> (see Note 1) Arc-rated long-sleeve shirt (AR) Arc-rated pants (AR) Arc-rated coverall (AR) Arc-rated arc flash suit jacket (AR) Arc-rated arc flash suit pants (AR) Arc-rated arc flash suit hood Arc-rated gloves (see Note 3) Arc-rated jacket, parka, rainwear, or hard hat liner (AN)</p> <p><b>Protective Equipment</b> Hard hat Safety glasses or safety goggles (SR) Hearing protection (ear canal insert) Leather footwear</p>

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PPE Category	PPE
4	<p><b>Arc-Rated Clothing Selected so That the System Arc Rating Meets the Required Minimum Arc Rating of 40 cal/cm<sup>2</sup></b> (see Note 1)</p> <ul style="list-style-type: none"><li>Arc-rated long-sleeve shirt (AR)</li><li>Arc-rated pants (AR)</li><li>Arc-rated coverall (AR)</li><li>Arc-rated arc flash suit jacket (AR)</li><li>Arc-rated arc flash suit pants (AR)</li><li>Arc-rated arc flash suit hood</li><li>Arc-rated gloves (see Note 3)</li><li>Arc-rated jacket, parka, rainwear, or hard hat liner (AN)</li></ul> <p><b>Protective Equipment</b></p> <ul style="list-style-type: none"><li>Hard hat</li><li>Safety glasses or safety goggles (SR)</li><li>Hearing protection (ear canal insert)</li><li>Leather footwear</li></ul>

AN: as needed (optional). AR: as required. SR: selection required.

Notes:

- (1) Arc *rating* is defined in Article 100 of *NFPA 70E*.
- (2) 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.
- (3) If rubber insulating gloves with leather protectors are used, additional leather or arc-rated gloves are not required. The combination of rubber insulating gloves with leather protectors satisfies the arc flash protection requirement.

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