

**NFPA Table 130.7 (C) (16)**  
**Protective Clothing and Personal Protective Equipment (PPE)**

<p><b>Hazard/Risk Category</b> 0</p>	<p><b>Protective Clothing and PPE</b>  Protective clothing, non-melting, or untreated natural fiber (e.g., untreated cotton, wool, rayon, or silk, or a blend of these materials) with a fabric weight of at least 4.5 oz/yd<sup>2</sup>  Shirt (long sleeve)  Pants (long)</p> <p><b>Protective Equipment</b>  Safety glasses or safety goggles (SR)  Hearing protection (ear canal inserts)  Heavy duty leather gloves (AN) (See Note 1)</p>
<p>1</p>	<p><b>Arc-rated Clothing, Minimum Arc-rating of 4 cal/cm<sup>2</sup> (See Note 3)</b>  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 inserts)  Heavy duty leather gloves (See Note 1)</p>
<p>2</p>	<p><b>Arc-rated Clothing, Minimum Arc Rating of 8 cal/cm<sup>2</sup> (See Note 3)</b>  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 inserts)  Heavy-duty leather gloves (See Note 1)  Leather work shoes</p>
<p>3</p>	<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> (See Note 3)</b>  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 (AR)  Arc-rated gloves (See Note 1)  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 inserts)  Leather work shoes</p>

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></p> <p>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 (AR)  Arc-rated gloves (See Note 1)  Arc-rated jacket, parka, rainwear, or hard hat liner (AN)</p> <p><b>Protective Equipment</b></p> <p>Hard hat  Safety glasses or safety goggles (SR)  Hearing protection (ear canal inserts)  Leather work shoes</p>
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AN=as needed  
AR=as required  
SR=selection required

**NOTES:**

1. If rubber insulating gloves with leather protectors are required by Table 130.7 (C) (9), additional leather or arc-rated gloves are not required. The combination of rubber insulating gloves with leather protectors satisfies the arc flash protection requirement.
2. Face shields are to have a wrap-around guarding to protect not only the face but also the forehead, ears, and neck, or, alternatively, an arc-rated flash suit hood is required to be worn.
3. Arc-rating is defined in Article 100 and can be either the arc thermal performance value (ATPV) or the energy of an open threshold ( $E_{bt}$ ). ATPV is defined in ASTM F 1959, Standard Test Method for Determining the Arc Thermal Performance Value of Materials for Clothing, as the incident energy on a material, or a multilayer system of materials that results in a 50 percent probability that the sufficient heat transfer through the tested specimen is predicted to cause the onset of a second degree skin burn injury based on the Stoll Curve, in cal/cm<sup>2</sup>.  $E_{bt}$  is defined in ASTM F 1959 as the incident energy on a material or material system that results in a 50 percent probability of a breakopen. Arc rating is reported as either ATPV or EBT, whichever is lower.