

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

<p>Hazard/Risk Category 0</p>	<p>Protective Clothing and PPE 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/yd² Shirt (long sleeve) Pants (long)</p> <p>Protective Equipment Safety glasses or safety goggles (SR) Hearing protection (ear canal inserts) Heavy duty leather gloves (AN) (See Note 1)</p>
<p>1</p>	<p>Arc-rated Clothing, Minimum Arc-rating of 4 cal/cm² (See Note 3) 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>Protective Equipment 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>Arc-rated Clothing, Minimum Arc Rating of 8 cal/cm² (See Note 3) 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>Protective Equipment 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>Arc-rated Clothing Selected so that the System Arc Rating Meets the Required Minimum Arc-rating of 25 cal/cm² (See Note 3) 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>Protective Equipment Hard hat Safety glasses or safety goggles (SR) Hearing protection (ear canal inserts) Leather work shoes</p>

4	<p>Arc-rated Clothing selected so that the System Arc Rating Meets the Required Minimum Arc Rating of 40 cal/cm²</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>Protective Equipment</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/cm². 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.