

# NFPA 70E® Table Sample: PPE



NFPA 70E® tables contain vital information about approach boundaries, hazard categories and PPE. **The following is only a SAMPLE of the information contained in NFPA 70E and should not be used for anything other than completing course activities.** Always use the most current edition of the NFPA 70E when working on energized electrical equipment. You can purchase the latest standards at the NFPA website.

**Table 130.7(C)(15)(c) Personal Protective Equipment (PPE)**

Arc Flash PPE Category	PPE
1	<p><b><u>Arc-Rated Clothing, Minimum Arc Rating of 4 cal/cm<sup>2</sup> (16.75 J/cm<sup>2</sup>)<sup>a</sup></u></b></p> <p>Arc-rated long-sleeve shirt and pants or arc-rated coverall</p> <p>Arc-rated face shield<sup>b</sup> or arc flash suit hood</p> <p>Arc-rated jacket, parka, high-visibility apparel, rainwear, or hard hat liner (AN)<sup>f</sup></p> <p><b><u>Protective Equipment</u></b></p> <p>Hard hat</p> <p>Safety glasses or safety goggles (SR)</p> <p>Hearing protection (ear canal inserts)<sup>c</sup></p> <p>Heavy-duty leather gloves, arc-rated gloves, or rubber insulating gloves with protectors (SR)<sup>d</sup></p> <p>Leather footwear<sup>e</sup> (AN)</p>
2	<p><b><u>Arc-Rated Clothing, Minimum Arc Rating of 8 cal/cm<sup>2</sup> (33.5 J/cm<sup>2</sup>)<sup>a</sup></u></b></p> <p>Arc-rated long-sleeve shirt and pants or arc-rated coverall</p> <p>Arc-rated flash suit hood or arc-rated face shield<sup>b</sup> and arc-rated balaclava</p> <p>Arc-rated jacket, parka, high-visibility apparel, rainwear, or hard hat liner (AN)<sup>f</sup></p>

	<p><b><u>Protective Equipment</u></b></p> <p>Hard hat</p> <p>Safety glasses or safety goggles (SR)</p> <p>Hearing protection (ear canal inserts)<sup>c</sup></p> <p>Heavy-duty leather gloves, arc-rated gloves, or rubber insulating gloves with protectors (SR)<sup>d</sup></p> <p>Leather footwear<sup>e</sup></p>
3	<p><b><u>Arc-Rated Clothing Selected so That the System Arc Rating Meets the Required Minimum Arc Rating of 25 cal/cm<sup>2</sup> (104.7 J/cm<sup>2</sup>)<sup>a</sup></u></b></p> <p>Arc-rated long-sleeve shirt (AR)</p> <p>Arc-rated pants (AR)</p> <p>Arc-rated coverall (AR)</p> <p>Arc-rated arc flash suit jacket (AR)</p> <p>Arc-rated arc flash suit pants (AR)</p> <p>Arc-rated arc flash suit hood</p> <p>Arc-rated gloves or rubber insulating gloves with protectors (SR)<sup>d</sup></p> <p>Arc-rated jacket, parka, high-visibility apparel, rainwear, or hard hat liner (AN)<sup>f</sup></p> <p><b><u>Protective Equipment</u></b></p> <p>Hard hat</p> <p>Safety glasses or safety goggles (SR)</p> <p>Hearing protection (ear canal inserts)<sup>c</sup></p> <p>Leather footwear<sup>e</sup></p>
4	<p><b><u>Arc-Rated Clothing Selected so That the System Arc Rating Meets the Required Minimum Arc Rating of 25 cal/cm<sup>2</sup> (104.7 J/cm<sup>2</sup>)<sup>a</sup></u></b></p> <p>Arc-rated long-sleeve shirt (AR)</p> <p>Arc-rated pants (AR)</p>

	<p>Arc-rated coverall (AR)</p> <p>Arc-rated arc flash suit jacket (AR)</p> <p>Arc-rated arc flash suit pants (AR)</p> <p>Arc-rated arc flash suit hood</p> <p>Arc-rated gloves or rubber insulating gloves with protectors (SR)<sup>d</sup></p> <p>Arc-rated jacket, parka, high-visibility apparel, rainwear, or hard hat liner (AN)<sup>f</sup></p> <p><b><u>Protective Equipment</u></b></p> <p>Hard hat</p> <p>Safety glasses or safety goggles (SR)</p> <p>Hearing protection (ear canal inserts)<sup>c</sup></p> <p>Leather footwear<sup>e</sup></p>
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AN: As needed (optional). AR: As required. SR: Selection required.

<sup>a</sup>Arc rating is defined in Article 100.

<sup>b</sup>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.

<sup>c</sup>Other types of hearing protection are permitted to be used in lieu of or in addition to ear canal inserts provided they are worn under an arc-rated arc flash suit hood.

<sup>d</sup>Rubber insulating gloves with protectors provide arc flash protection in addition to electric shock protection. Higher class rubber insulating gloves with protectors, due to their increased material thickness, provide increased arc flash protection.

<sup>e</sup>Footwear other than leather or dielectric shall be permitted to be used provided it has been tested to demonstrate no ignition, melting or dripping at the minimum arc rating for the respective arc flash PPE category.

<sup>f</sup>The arc rating of outer layers worn over arc-rated clothing as protection from the elements or for other safety purposes, and that are not used as part of a layered system, shall not be required to be equal to or greater than the estimated incident energy exposure.