## **Arc Flash Personal Protection (PPE) Categories**

The National Fire Protection Association (NFPA) uses four Arc Flash PPE Categories to classify ranges of arc flash hazards, and the corresponding requirements for PPE. The categories are one of the methods used in the current NFPA 70E standard to inform workers about the protection they need while working on energized equipment.

Each category includes a minimum arc rating value for the required PPE. This value is determined by the PPE manufacturer, and indicates the amount of energy (in cal/cm<sup>2</sup>) that the clothing can absorb or block before the wearer would be likely to receive more then 50% second-degree body burns.

PPE CATEGORY	Arc-Rated Clothing         AR long-sleeve shirt and pants or arc-rated coverall         AR face shield or arc flash suit hood         AR jacket, parka, rainwear or hard hat liner         Protective Equipment         Hard hat         Safety glasses or safety goggles         Hearing protection         Heavy-duty leather gloves         Leather footwear	MINIMUM ARC RATING	21AGR12-C+500
ppe category 2	Arc-Rated Clothing         AR long-sleeve shirt and pants or arc-rated coverall         AR rated suit hood or arc rated face shield & balaclava         AR jacket, parka, rainwear or hard hat liner         Protective Equipment         Hard hat         Safety glasses or safety goggles         Hearing protection         Heavy-duty leather gloves         Leather footwear	MINIMUM ARC RATING <b>8</b> cal/cm <sup>2</sup>	HRC2 TCG2P
PPE CATEGORY	Arc-Rated Clothing         AR long-sleeve shirt, pants, and hood or arc rated coverall and hood         AR suit consisting of hood, coat, bib overalls, or hood & coveralls         AR gloves         AR jacket, parka, rainwear or hard hat liner         Protective Equipment         Hard hat         Safety glasses or safety goggles         Hearing protection         Heavy-duty leather gloves         Leather footwear	MINIMUM ARC RATING <b>25</b> cal/cm <sup>2</sup>	TCG25
	Arc-Rated Clothing         AR long-sleeve shirt, pants, and hood or arc rated coverall and hood         AR suit consisting of hood, coat, bib overalls, or hood & coveralls         AR gloves         AR jacket, parka, rainwear or hard hat liner         Protective Equipment         Hard hat         Safety glasses or safety goggles         Hearing protection         Heavy-duty leather gloves         Leather footwear	MINIMUM ARC RATING 40 cal/cm <sup>2</sup>	TCG40
	Arc-Rated Clothing         AR long-sleeve shirt, pants, and hood or arc rated coverall and hood         AR suit consisting of hood, coat, bib overalls, or hood & coveralls         AR gloves         AR jacket, parka, rainwear or hard hat liner         Protective Equipment         Hard hat         Safety glasses or safety goggles         Hearing protection	MINIMUM ARC RATING 65 cal/cm <sup>2</sup>	TCG65
	<ul> <li>Heavy-duty leather gloves</li> <li>Leather footwear</li> </ul>	MINIMUM ARC RATING <b>100</b> cal/cm <sup>2</sup>	TCG100
	*Energized electrical work over 40 cal/cm <sup>2</sup> requires an incident energy analysis to be performed. Once this analysis has been done the appropriate PPE can be selected from the chart above by matching the calculated incident energy level with the corresponding PPE.	MINIMUM ARC RATING <b>140</b> cal/cm <sup>2</sup>	ARC140

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