

Establishing an Electrical Safety Work Program

OSHA 29 CFR 1910.333(a) states that employers must employ safety-related work practices to prevent electrical shock or other injuries resulting from either direct or indirect electrical contact. The **NFPA 70E Standard for Electrical Safety in the Workplace** requires employers to perform an **Electrical Arc Hazard Assessment** for each situation.

The Grainger Online SafetyManager® System offers NFPA 70E Electrical Safety Training - 2015 Series to help you keep your workplace in compliance with the NFPA 70E Electrical Safety standard. Access our library of easy-tofollow training courses (subscription required), including Training Module 4: Personal Protective Equipment and Clothing requirements, as well as helpful technical articles at grainger.com/safetymanager

A hazard assessment must be performed using one of the following 2 methods: 1. Incident Energy Analysis 2. Arc Flash PPE Category

Arc F Categ			7(C)(16) Required Protective Equipment				
1	4	Shirt (Long Sleeve) and Pants (Long) or Coveralls; Flash Suit Hood or Faceshield; Jacket, Parka, Rainwear, or Hard Hat Liner (AN)	Hard Hat; Safety Glasses or Goggles (SR); Hearing Protection (Ear Canal Inserts); Heavy Duty Leather Gloves; Leather Footwear (AN)				
2	8	Shirt (Long Sleeve) and Pants (Long) or Coveralls; Flash Suit Hood or Faceshield and Balaclava; Jacket, Parka, Rainwear, or Hard Hat Liner (AN)	Hard Hat; Safety Glasses or Goggles (SR); Hearing Protection (Ear Canal Inserts); Heavy Duty Leather Gloves; Leather Footwear (AN)				
3	25	Shirt (Long Sleeve) (AR); Pants (Long) (ÅR); Coveralls (AR); Flash Suit Jacket (ÅR); Flash Suit Pants (AR); Flash Suit Hood, Gloves, Jacket, Parka, Rainwear, or Hard Hat Liner (AN)	Hard Hat; Safety Glasses or Goggles (SR); Hearing Protection (Ear Canal Inserts); Heavy Duty Leather Gloves; Leather Footwear (AN)				
4	40	Shirt (Long Sleeve) (AR); Pants (Long) (AR); Coveralls (AR); Flash Suit Jacket (AR); Flash Suit Pants (AR)	Hard Hat; Safety Glasses or Goggles (SR); Hearing Protection (Ear Canal Inserts); Heavy Duty Leather Gloves; Leather Footwear (AN)				
* 1 of the 2 methods used to determine the PPE category for a job task AN – As Needed (Ontional) AR – As Required SR – Selection Required							

Arc Flash & Flame-Resistant Apparel Materials

Arc flash materials resist burning and melting and are self-extinguishing.

Canvas is a durable woven fabric.

ComforTouch is a cotton/nylon blend that is breathable and durable.

CoolTouch2 is a breathable blend.

Cotton is breathable and flexible.

DuraStretch is a soft cotton/nylon blend that stretches with movement.

Excel FR is a breathable cotton.

GlenGuard wicks moisture to keep workers cool.

Indura is a cotton material that is comfortable, breathable, and resistant to molten iron splash.

Inherent Blend and Treated Cotton is a durable antistatic cotton that wicks moisture to keep workers cool.

Modacrylic is breathable and wicks moisture to keep workers cool.

Nomex is durable and breathable.

Nomex IIIA is a Nomex/aramid blend that is breathable and durable. It has better static dissipation than standard Nomex.

Nylon is strong and smooth and has excellent resistance to wear and abrasion.

Protera is lightweight and breathable.

PVC is a plastic that repels water.

RevoLite is a carbon fiber blend that provides high thermal protection.

UltraSoft is a cotton/nylon blend that is breathable, durable, and comfortable.



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Arc Flash & Flame-Resistant Clothing Kits - Category 2 • Meet NFPA 70E standards

 Available in sizes from S to 4XL at Grainger.com
Kits include a selection of garments and headwear that protect workers from burn injuries in areas with sparks, open flame, and other potential fire hazards.
See Grainger.com for detailed descriptions of each kit's contents and garment features.



Material	Includes	Color	Brand	No.
Protera®	Faceshield with Hard Hat, Safety Glasses	Beige	National Safety Apparel	D0761
UltraSoft®	Faceshield Bag, North Zone Hard Hat, Safety Glasses, Storage Bag	Gray/Red	Honeywell Salisbury	K2560
UltraSoft®	Faceshield Bag, North Zone Hard Hat, Safety Glasses, Storage Bag	Gray/Red	Honeywell Salisbury	K2563
UltraSoft®	10 Cal Balaclava, Arc Flash Coat and Over Pant, AS1000 PrismShield [®] Faceshield, Faceshield Bag, North Zone Hard Hat, Safety Glasses, Storage Bag	Gray/Red	Honeywell Salisbury	K2575
UltraSoft®	Coveralls, Ear Plugs, Face Shield, Gear Bag, Hard Cap, Safety Glasses	Blue	Chicago Protective Apparel	J6474
UltraSoft®	12 Cal Balaclava, Arc Flash Coverall, AS1200 PrismShield [®] Faceshield, Faceshield Bag, North Zone Hard Hat, Safety Glasses, Storage Bag	Gray/Red	Honeywell Salisbury	K2561
UltraSoft®	10 in Leather Protector Gloves, 11 in Class 0 Rubber Gloves, Balaclava, Cap Bracket, Chin Cup, Ear Plugs, Face Shield, Glove and Gear Bag, Hard Cap, Jacket and Bib, Safety Glasses	Blue	Chicago Protective Apparel	H5438
UltraSoft®	11 in Class 0 Rubber Gloves, 12" Leather Protector Gloves, Balaclava, Cap Bracket, Coveralls, Ear Plugs, Face Shield with Chin Cup, Glove and Gear Bag, Hard Cap, Safety Glasses	Blue	Chicago Protective Apparel	H5439
	Material Protera® UltraSoft® UltraSoft® UltraSoft® UltraSoft® UltraSoft®	Material Includes Protera® 8 Cal FR Protera Coverall, Faceshield Bag and Gear Bag, PureView Faceshield with Hard Hat, Safety Glasses UltraSoft® 10 Cal Balaclava, Arc Flash Coverall, AS1000 PrismShield® Faceshield, Faceshield Bag, North Zone Hard Hat, Safety Glasses, Storage Bag UltraSoft® 10 Cal Balaclava, Arc Flash Coverall, AS1000 PrismShield® Faceshield, Faceshield Bag, North Zone Hard Hat, Safety Glasses, Storage Bag UltraSoft® 10 Cal Balaclava, Arc Flash Coverall, AS1000 PrismShield® Faceshield, Faceshield Bag, North Zone Hard Hat, Safety Glasses, Storage Bag UltraSoft® 10 Cal Balaclava, Arc Flash Coverall, AS1200 PrismShield® Faceshield, Faceshield Bag, North Zone Hard Hat, Safety Glasses, Storage Bag UltraSoft® 10 Cal Balaclava, Arc Flash Coverall, AS1200 PrismShield® Faceshield, Faceshield Bag, North Zone Hard Hat, Safety Glasses, Storage Bag UltraSoft® Coveralls, Ear Plugs, Face Shield, Gear Bag, Hard Cap, Safety Glasses UltraSoft® 12 Cal Balaclava, Arc Flash Coverall, AS1200 PrismShield® Faceshield, Faceshield Bag, North Zone Hard Hat, Safety Glasses, Storage Bag UltraSoft® 10 in Leather Protector Gloves, 11 in Class 0 Rubber Gloves, Balaclava, Cap Bracket, Chin Cup, Ear Plugs, Face Shield, Glove and Gear Bag, Hard Cap, Jacket and Bib, Safety Glasses UltraSoft® 10 in Leas 0 Rubber Gloves, 12 Leather Protector Gloves, Balaclava, Cap Bracket, Coveralls, 11 in Class 0 Rubber Gloves, 12 Leather Protector Gloves, Balaclava, Cap Bracket, Coveralls,	Material Includes Color Protera® 8 Cal FR Protera Coverall, Faceshield Bag and Gear Bag, PureView Faceshield with Hard Hat, Safety Glasses Beige UltraSoft® 10 Cal Balaclava, Arc Flash Coverall, AS1000 PrismShield® Faceshield, Faceshield Bag, North Zone Hard Hat, Safety Glasses, Storage Bag Gray/Red UltraSoft® 10 Cal Balaclava, Arc Flash Coverall, AS1000 PrismShield® Faceshield, Faceshield Bag, North Zone Hard Hat, Safety Glasses, Storage Bag Gray/Red UltraSoft® 10 Cal Balaclava, Arc Flash Coverall, AS1000 PrismShield® Faceshield, Faceshield Bag, North Zone Hard Hat, Safety Glasses, Storage Bag Gray/Red UltraSoft® 10 Cal Balaclava, Arc Flash Coverall, AS1000 PrismShield® Faceshield, Faceshield Bag, North Zone Hard Hat, Safety Glasses, Storage Bag Gray/Red UltraSoft® 10 Cal Balaclava, Arc Flash Coverall, AS1200 PrismShield® Faceshield, Faceshield Bag, North Zone Hard Hat, Safety Glasses, Storage Bag Gray/Red UltraSoft® Coveralls, Ear Plugs, Face Shield, Gear Bag, Hard Cap, Safety Glasses Blue UltraSoft® 12 Cal Balaclava, Arc Flash Coverall, AS1200 PrismShield® Faceshield Gray/Red UltraSoft® 12 Cal Balaclava, Arc Flash Coverall, AS1200 PrismShield® Faceshield, Faceshield Bag, North Zone Hard Hat, Safety Glasses, Storage Bag Gray/Red UltraSoft® 12 Cal Balaclava, Arc Flash Coverall, AS1200	Material Includes Color Brand Protera® 8 Cal FR Protera Coverall, Faceshield Bag and Gear Bag, PureView Faceshield with Hard Hat, Safety Glasses Beige National Safety Apparel UltraSoft® 10 Cal Balaclava, Arc Flash Coverall, KS1000 PrismShield® Faceshield, Faceshield Bag, North Zone Hard Hat, Safety Glasses, Storage Bag Gray/Red Honeywell Salisbury UltraSoft® 10 Cal Balaclava, Arc Flash Coverall, KS1000 PrismShield® Faceshield, Faceshield Bag, North Zone Hard Hat, Safety Glasses, Storage Bag Gray/Red Honeywell Salisbury UltraSoft® 10 Cal Balaclava, Arc Flash Coverall, AS1000 PrismShield® Faceshield, Faceshield Bag, North Zone Hard Hat, Safety Glasses, Storage Bag Gray/Red Honeywell Salisbury UltraSoft® 10 Cal Balaclava, Arc Flash Coverall, AS1000 PrismShield® Faceshield, Faceshield Bag, North Zone Hard Hat, Safety Glasses, Storage Bag Gray/Red Honeywell Salisbury UltraSoft® Coveralls, Ear Plugs, Face Shield, Gear Bag, Hard Cap, Safety Glasses Blue Chicago Protective Apparel UltraSoft® 12 Cal Balaclava, Arc Flash Coverall, AS1200 PrismShield® Faceshield Gray/Red Honeywell Salisbury Faceshield Bag, North Zone Hard Hat, Safety Glasses, Storage Bag Gray/Red Honeywell Salisbury UltraSoft® 12 Cal Balaclava, Arc Flash Coverall,



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