

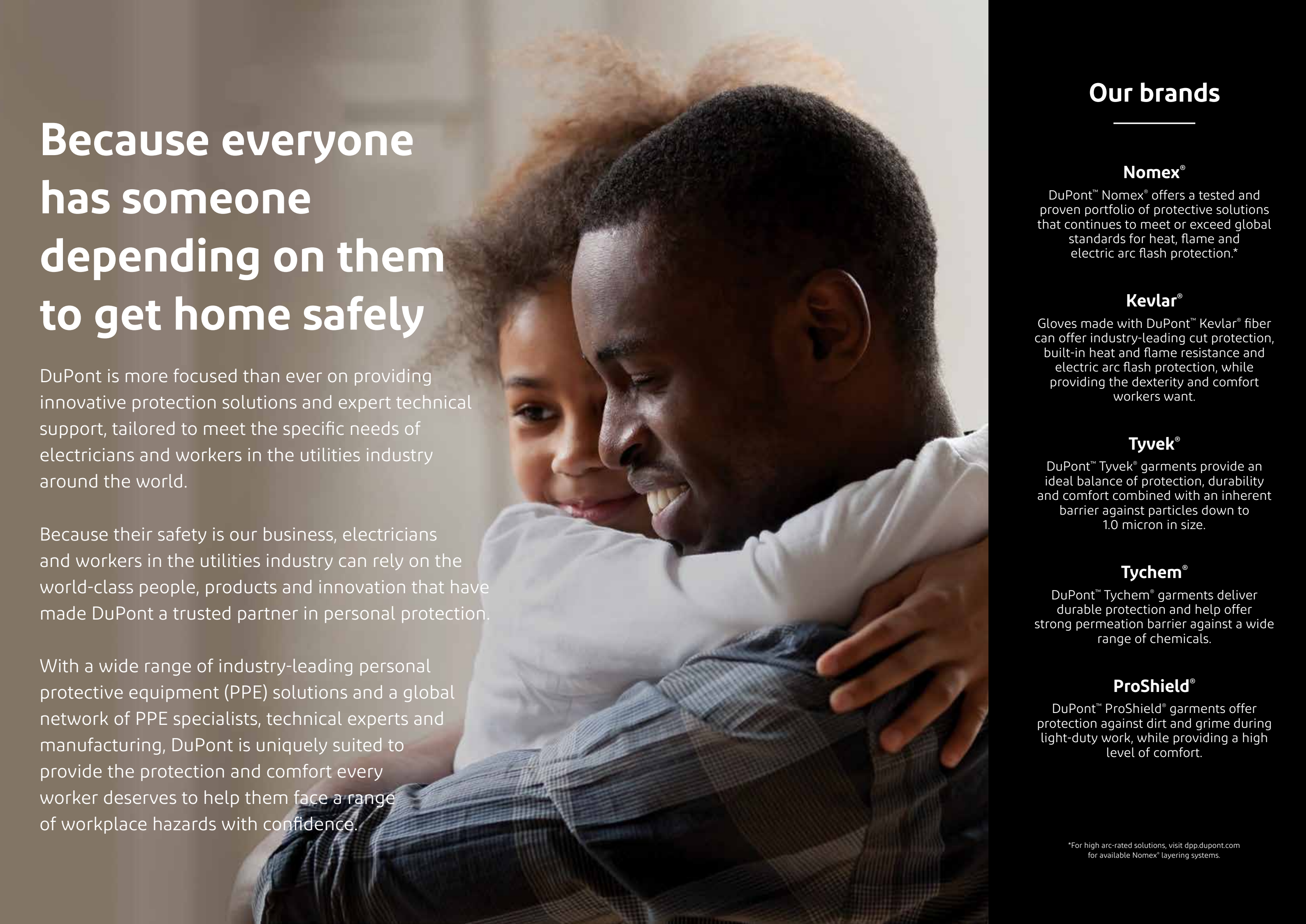
Utilities



Personal protective solutions for utilities industry applications

July 2021
Version 2.0



A photograph of a man and a young girl hugging. The man is in the foreground, wearing a blue and white plaid shirt, with his arms around the girl. The girl is behind him, wearing a white long-sleeved shirt, and has her arms around his neck. They are both smiling and looking towards the camera. The background is a plain, light-colored wall.

Because everyone has someone depending on them to get home safely

DuPont is more focused than ever on providing innovative protection solutions and expert technical support, tailored to meet the specific needs of electricians and workers in the utilities industry around the world.

Because their safety is our business, electricians and workers in the utilities industry can rely on the world-class people, products and innovation that have made DuPont a trusted partner in personal protection.

With a wide range of industry-leading personal protective equipment (PPE) solutions and a global network of PPE specialists, technical experts and manufacturing, DuPont is uniquely suited to provide the protection and comfort every worker deserves to help them face a range of workplace hazards with confidence.

Our brands

Nomex®

DuPont™ Nomex® offers a tested and proven portfolio of protective solutions that continues to meet or exceed global standards for heat, flame and electric arc flash protection.*

Kevlar®

Gloves made with DuPont™ Kevlar® fiber can offer industry-leading cut protection, built-in heat and flame resistance and electric arc flash protection, while providing the dexterity and comfort workers want.

Tyvek®

DuPont™ Tyvek® garments provide an ideal balance of protection, durability and comfort combined with an inherent barrier against particles down to 1.0 micron in size.

Tychem®

DuPont™ Tychem® garments deliver durable protection and help offer strong permeation barrier against a wide range of chemicals.

ProShield®

DuPont™ ProShield® garments offer protection against dirt and grime during light-duty work, while providing a high level of comfort.

*For high arc-rated solutions, visit dpp.dupont.com for available Nomex® layering systems.

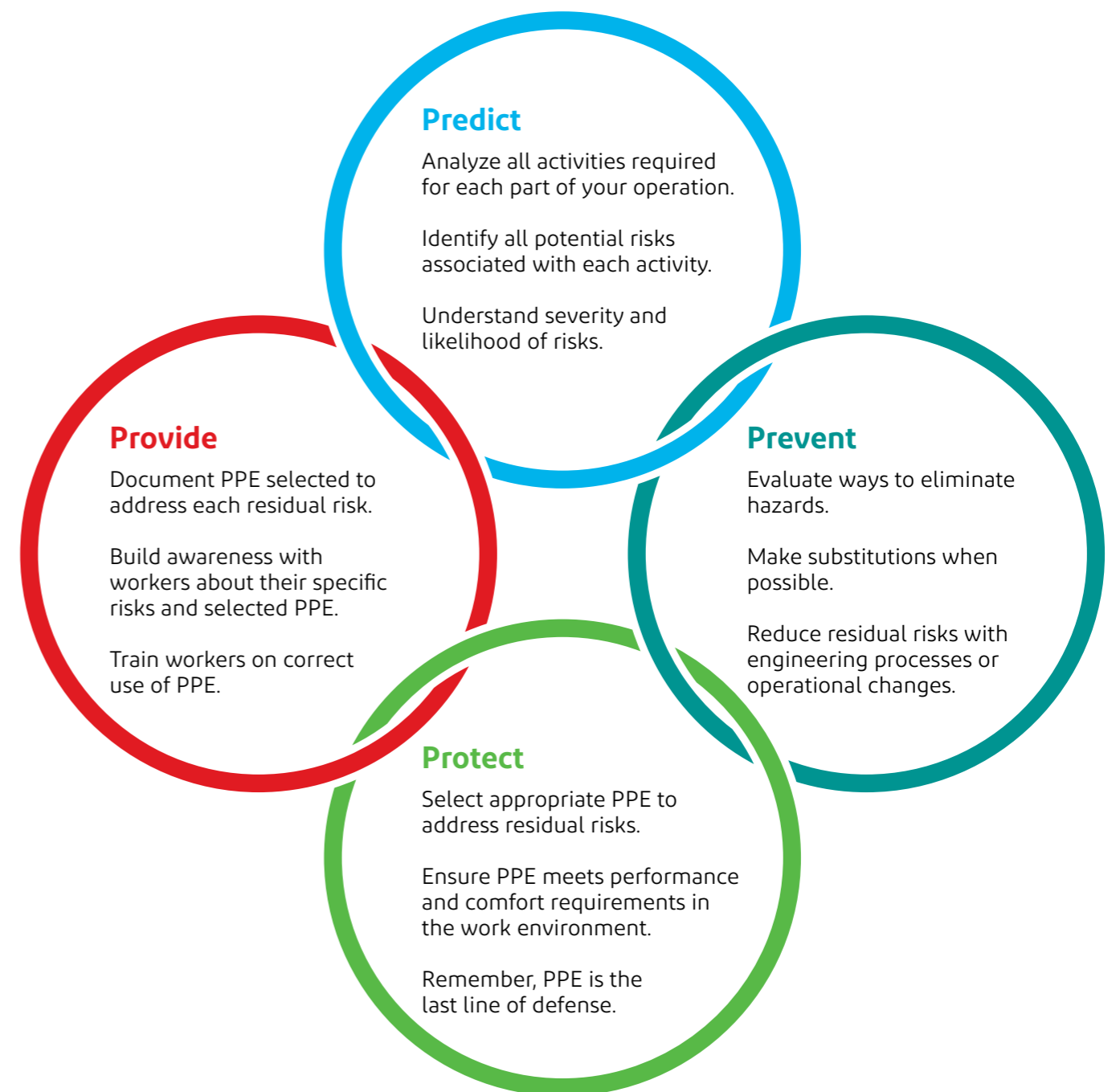
Are your workers really protected?



Workers in the utilities industry face many on-the-job hazards. According to the U.S. Occupational Safety and Health Administration (OSHA) Severity Index from January 2015 through September 2019, within subcategories of other injuries, most injuries in the utilities industry were related to fractures and amputations. Approximately 32% were heat (thermal) burns; 26% were cuts and lacerations; and nearly 5% were chemical burns and corruptions. In total, body and hands represent 71.14% of the body parts that are most often injured.

Providing workers with the protection they need for the hazards they face is a major responsibility. DuPont Personal Protection has the in-depth knowledge, unparalleled expertise and broad portfolio of PPE solutions to help keep your workers safe.

To help you in the decision-making process, from risk assessment through implementation, we recommend using the 4P methodology:

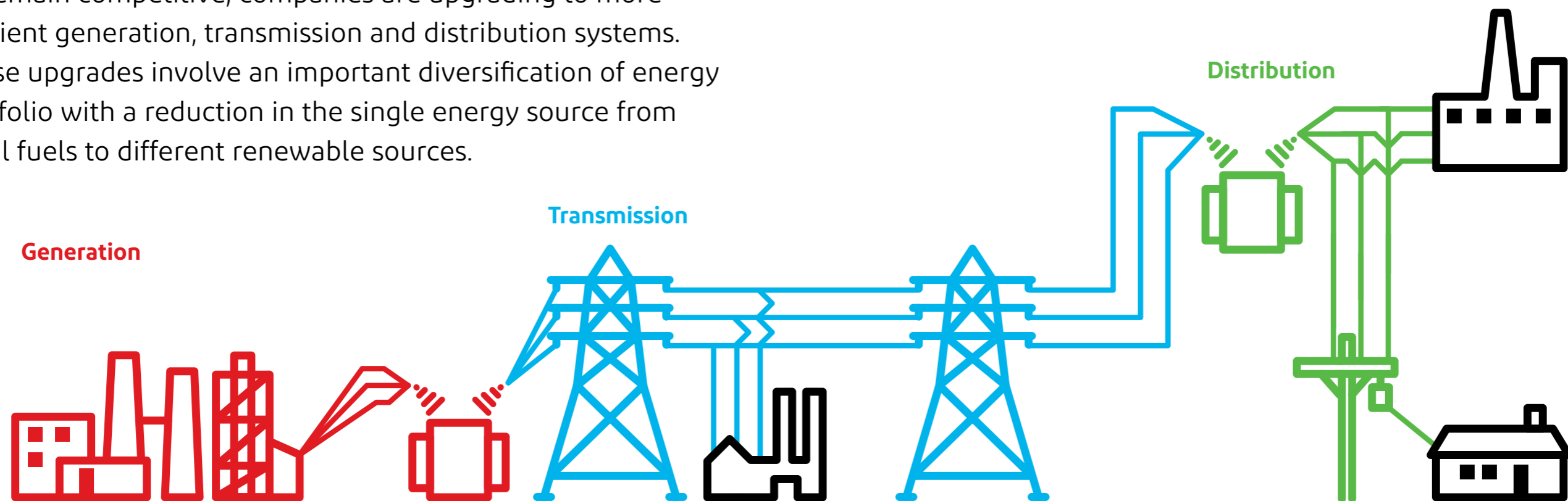


Multiple workplace hazards in a dynamic work environment

Now more than ever, utility companies across the globe face increased competition, stricter regulations, limited government subsidies and social pressure for more clean energy sources.

To remain competitive, companies are upgrading to more efficient generation, transmission and distribution systems. These upgrades involve an important diversification of energy portfolio with a reduction in the single energy source from fossil fuels to different renewable sources.

As a result, workers in the utilities industry, who are responsible for providing electricity as an essential need for the world, are facing new and multiple workplace hazards in a very dynamic work environment. DuPont offers a broad range of PPE solutions to address these hazards, including: Nomex® garments for thermal and electric arc flash hazards; gloves made with Kevlar® for mechanical and multi-hazard protection; Tyvek® garments for protection against fine particle hazards and low level liquid splashes; Tychem® garments for protection against a wide range of chemicals; and ProShield® garments for protection against dirt and grime.





Protection for every task



Generation

There are several relevant activities in the electric generation system, with a special focus on operation and maintenance in power plants and substations.

Tasks

Operation and maintenance of power plants

Servicing electrical panels

Inspection/maintenance of electrical generators

Maintenance of substation equipment

Hazards

Heat

Electric arc flash

Cut

Flash fire

Dirt

For a full list of PPE solutions, visit [SafeSPEC™](#).



Available PPE options

For excellent arc flash protection combined with outstanding heat and flame protection in a lightweight solution:



Nomex® Xtreme Arc

The most innovative Nomex® offering for arc flash and FR protection. Nomex® Xtreme Arc provides an arc thermal performance value (ATPV) of 12 to 19 cal/cm² and single-layer comfort, making it an ideal choice for workers confronted with high-risk electrical exposure.

EN ISO 11612: 2015



A1 B1 C1 F1

IEC 61482-2: 2018



ATPV >12 cal/cm²
APC: Class 1

EN 1149-5: 2018



NOTE: Results may vary depending on the garment manufacturer.

For a balance of multi-hazard hand protection against arc flash and cuts combined with enhanced dexterity:



SHOWA 240

Lightweight and comfortable, these 13-gauge gloves lined with Kevlar® have a sponge neoprene palm coating. Flame resistant Kevlar® fiber helps enable protection against arc flash up to ATPV 9.2 cal/cm², according to open arc/box tests. Flat dipped sponge neoprene coating provides enhanced grip and the anatomical design helps prevent hand fatigue.

Cat. III



EN 388:2016



3X31C

EN 388:2003



3531

EN 407:2004



42212X



ATPV 9.2 cal/cm²

NOTE: EN 388:2016 and EN 407:2020 are equivalent to ISO 23388:2018 and future ISO 23407, respectively.

For protection against dirt without compromising flame resistance or arc flash protection:



ProShield® 20 SFR

ProShield® 20 SFR garments meet the requirements of EN 14116 Index 1 (limited flame spread) and provide protection against contamination by dust, dirt particles and limited liquid splashes or sprays of water-based liquids. This coverall should be worn on top of a flame-resistant (FR) garment, such as a garment made of Nomex® Xtreme Arc.

Cat. III



EN ISO 13982-1: 2004



Type 5

EN 13034:2005



Type 6

EN 14126:2003



EN 1073-2:2002



EN 1149-5:2018



EN 14116:2015 Index 1





Generation

Tasks

Operation and maintenance of power plants

Fuel loading

Waste management

Hazards

Dirt/dust

Liquid chemical splash

Flash fire

Arc flash

For a full list of PPE solutions, visit [SafeSPEC™](#).



Available PPE options

For arc flash protection combined with comfort in a lightweight solution:



Nomex® Arc

Nomex® Arc is a superior double-faced fabric that offers >8 cal/cm² ATPV arc flash protection, along with Nomex® legacy thermal protection. This inherent protection can't be washed out or worn away. Nomex® Arc also resists tears and abrasion, making it extremely durable.

EN ISO 11612:2015



A1 B1 C1 F1

IEC 61482-2



ATPV >8 cal/cm²
APC: Class 1

For protection against a wide range of chemicals and hazardous particulates and where an FR hazard is not present:



Tyvek® 800 J

Robust yet lightweight, Tyvek® 800 J garments provide an effective barrier against many low-concentrated inorganic chemicals (even under pressure) and small-sized hazardous particulates, as well as oil repellency. Ideal for cleaning operations with water pressure jets.

Cat. III



EN 14605:2005



Type 3-B

EN 14605:2005



Type 4-B

EN ISO 13982-1:2004



Type 5-B

EN 13034:2005



Type 6-B

EN 1149-5:2018



EN 14126:2003



EN 1073-2



Tyvek® 600 Plus

Tyvek® is permeable to both air and water vapor yet repels water-based liquids and aerosols. Tyvek® 600 Plus garments are designed with taped seams, providing increased protection and tightness at the seam area. Ideal for maintenance operations in nuclear power plants because it has a nominal protection factor of >50.

Cat. III



EN 14605:2005



Type 4-B

EN ISO 13982-1:2004



Type 5-B

EN 13034:2005



Type 6-B

EN 14126:2003



EN 1073-2:2002



EN 1149-5:2018



Tyvek® 500 Xpert

Tyvek® is permeable to both air and water vapor yet repels water-based liquids and aerosols. Tyvek® provides an ideal balance of protection, durability and comfort. Tyvek® 500 Xpert garments offer an excellent barrier against fine particles and fibers (down to 1 micron in size) and are antistatically treated on both sides.

Cat. III



EN ISO 13982-1:2004



Type 5-B

EN 13034:2005



Type 6-B

EN 14126:2003



EN 1073-2:2002



EN 1149-5:2018



Generation

Tasks

Operation and maintenance of power plants

Fuel loading

Waste management

Hazards

Dirt/dust

Liquid chemical splash

Flash fire

Arc flash

For a full list of PPE solutions, visit [SafeSPEC™](#).



Tychem® 2000 C

Tychem® 2000 C garments utilize the strength of Tyvek® and a polymeric barrier coating to offer good permeation barrier protection against a wide range of inorganic chemicals and biological hazards.

Cat. III



EN 14605:2005



Type 3-B

EN 14605:2005



Type 4-B

EN ISO 13982-1:2004



Type 5-B

EN 13034:2005



Type 6-B

EN 1073-2:2002



EN 1149-5:2018



EN 14126:2003



Tychem® 6000 F

Tychem® 6000 F garments consist of a proprietary barrier film laminated to a heavy-duty Tyvek® substrate, making it resistant to liquid jet. These garments offer excellent chemical permeation protection against an extensive range of chemicals, including numerous toxic industrial organic chemicals and highly concentrated inorganic chemicals.

Cat. III



EN 14605:2005



Type 3-B

EN 14605:2005



Type 4-B

EN ISO 13982-1:2004



Type 5-B

EN 13034:2005



Type 6-B

EN 1073-2:2002



EN 1149-5:2018



EN 14126:2003



For protection against a wide range of chemicals combined with flame and arc flash hazard protection:



Tychem® 6000 FR ThermoPro

Tychem® 6000 FR ThermoPro provides triple hazard protection from chemicals, flash fire and electrical arc, combining the trusted chemical protection of Tychem® with the flame and arc flash protection of Nomex® into a single garment. Constructed for heavy use, yet lightweight and easy to wear, Tychem® 6000 FR ThermoPro provides protection against more than 400 chemical challenges.

Cat. III



EN 14605:2005



Type 3-B

EN 14605:2005



Type 4-B

EN 13034:2005



Type 6-B

EN 1149-5:2018



EN 14126:2003



EN ISO 11612:2015



A1 B1 C1 D1 E2 F2

EN ISO 11611:2015



Class 2A1

EN ISO 14116:2015



Index 3

IEC 61482-2:2018



ATPV >8 cal/cm²
APC: Class 1



Transmission

There are several relevant activities in the transmission systems, with a special focus on the construction, operation and maintenance of transmission lines and substations.

Tasks

Operation and maintenance stream airline networks and substations

Job transmission lines maintenance

Hazards

Heat

Electromagnetic field

Arc flash

Cuts

Dust

For a full list of PPE solutions, visit SafeSPEC™.



Available PPE options

For arc flash protection combined with comfort in a lightweight solution:



Nomex® Arc

Nomex® Arc is a superior double-faced fabric that offers >8 cal/cm² ATPV arc flash protection, along with Nomex® legacy thermal protection. This inherent protection can't be washed out or worn away. Nomex® Arc also resists tears and abrasion, making it extremely durable.

EN ISO 11612:2015



A1 B1 C1 F1

IEC 61482-2



ATPV >8 cal/cm²
APC: Class 1

For a balance of multi-hazard hand protection against arc flash and cuts combined with enhanced dexterity:



SHOWA 240

Lightweight and comfortable, these 13-gauge gloves lined with Kevlar® have a sponge neoprene palm coating. Flame resistant Kevlar® fiber helps enable protection against arc flash up to ATPV 9.2 cal/cm², according to open arc/box tests. Flat dipped sponge neoprene coating provides enhanced grip and the anatomical design helps prevent hand fatigue.

Cat. III



EN 388:2016



3X31C

EN 388:2003



3531

EN 407:2004



42212X



ATPV 9.2 cal/cm²

NOTE: EN 388:2016 and EN 407:2020 are equivalent to ISO 23388:2018 and future ISO 23407, respectively.

For protection against dirt without compromising flame resistance or arc flash protection:



ProShield® 20 SFR

ProShield® 20 SFR garments meet the requirements of EN 14116 Index 1 (limited flame spread) and provide protection against contamination by dust, dirt particles and limited liquid splashes or sprays of water-based liquids. This coverall should be worn on top of an FR garment, such as a garment made of Nomex® Xtreme Arc.

Cat. III



EN ISO 13982-1:2004



Type 5

EN 13034:2005



Type 6

EN 14126:2003



EN 1073-2:2002



EN 1149-5:2018



EN 14116:2015



Index 1



Transmission

There are several relevant activities in the transmission systems, with a special focus on the construction, operation and maintenance of transmission lines and substations.

Tasks

Operation and maintenance stream airline networks and substations

Job transmission lines maintenance

Hazards

Heat

Electromagnetic field

Arc flash

Cuts

Dust

For a full list of PPE solutions, visit SafeSPEC™.



For an ideal balance of protection, durability and comfort combined with an inherent barrier against fine particles and where an FR hazard is not present:



Tyvek® 500 Xpert

Tyvek® is permeable to both air and water vapor yet repels water-based liquids and aerosols. Tyvek® provides an ideal balance of protection, durability and comfort. Tyvek® 500 Xpert garments offer an excellent barrier against fine particles and fibers (down to 1 micron in size) and are antistatically treated on both sides.

Cat. III



EN ISO 13982-1:2004



Type 5-B

EN 13034:2005



Type 6-B

EN 14126:2003



EN 1073-2:2002



EN 1149-5:2018





Transmission

In high-voltage substations, there are tasks that require high precision and risk control, making these workplaces a very restrictive environment.

Tasks

Operation and maintenance stream airline networks and substations

Maintenance of high-voltage substation equipment

Hazards

Heat

Arc flash

Cuts

Dirt/dust

Liquid chemicals

For a full list of PPE solutions, visit SafeSPEC™.



Available PPE options

For excellent arc flash protection combined with outstanding heat and flame protection in a lightweight solution:



Nomex® Xtreme Arc

The most innovative Nomex® offering for arc flash and FR protection. Nomex® Xtreme Arc provides an ATPV of 12 to 19 cal/cm² and single-layer comfort, making it an ideal choice for workers confronted with high-risk electrical exposure.

EN ISO 11612: 2015



A1 B1 C1 F1

IEC 61482-2: 2018



ATPV >12 cal/cm²
APC: Class 1

EN 1149-5: 2018



NOTE: Results may vary depending on the garment manufacturer.

For a balance of multi-hazard hand protection against arc flash and cuts combined with enhanced dexterity:



SHOWA 240

Lightweight and comfortable, these 13-gauge gloves lined with Kevlar® have a sponge neoprene palm coating. Flame resistant Kevlar® fiber helps enable protection against arc flash up to ATPV 9.2 cal/cm², according to open arc/box tests. Flat dipped sponge neoprene coating provides enhanced grip and the anatomical design helps prevent hand fatigue.

Cat. III



EN 388:2016



3X31C

EN 388:2003



3531

EN 407:2004



42212X



ATPV 9.2 cal/cm²

NOTE: EN 388:2016 and EN 407:2020 are equivalent to ISO 23388:2018 and future ISO 23407, respectively.

For protection against dirt without compromising flame resistance or arc flash protection:



ProShield® 20 SFR

ProShield® 20 SFR garments meet the requirements of EN 14116 Index 1 (limited flame spread) and provide protection against contamination by dust, dirt particles and limited liquid splashes or sprays of water-based liquids. This coverall should be worn on top of an FR garment, such as a garment made of Nomex® Xtreme Arc.

Cat. III



EN ISO 13982-1: 2004



Type 5

EN 13034:2005



Type 6

EN 14126:2003



EN 1073-2:2002



EN 1149-5:2018



EN 14116:2015 Index 1



Transmission

In high-voltage substations, there are tasks that require high precision and risk control, making these workplaces a very restrictive environment.

Tasks

Operation and maintenance stream airline networks and substations

Maintenance of high-voltage substation equipment

Hazards

Heat

Arc flash

Cuts

Dirt/dust

Liquid chemicals

For a full list of PPE solutions, visit SafeSPEC™.



For an ideal balance of protection, durability and comfort combined with an inherent barrier against fine particles and where an FR hazard is not present:



Tyvek® 500 Xpert

Tyvek® is permeable to both air and water vapor yet repels water-based liquids and aerosols. Tyvek® provides an ideal balance of protection, durability and comfort. Tyvek® 500 Xpert garments offer an excellent barrier against fine particles and fibers (down to 1 micron in size) and are antistatically treated on both sides.

Cat. III



EN ISO 13982-1: 2004



Type 5-B

EN 13034: 2005



Type 6-B

EN 14126: 2003



EN 1073-2: 2002



EN 1149-5: 2018



For protection against a wide range of chemicals and hazardous particulates and where an FR hazard is not present:



Tychem® 4000 S

Tychem® 4000 S garments are made from a lightweight, supple and durable fabric consisting of a chemical barrier film laminated to a heavy-duty Tyvek® substrate. These garments provide chemical permeation protection against a broad range of inorganic and organic chemicals.

Cat. III



EN 14605:2005



Type 3-B

EN 14605:2005



Type 4-B

EN ISO 13982-1: 2004



Type 5-B

EN 13034:2005



Type 6-B

EN 1073-2



EN 1149-5:2018



EN 14126:2003



Tychem® 6000 F

Tychem® 6000 F garments consist of a proprietary barrier film laminated to a heavy-duty Tyvek® substrate, making it resistant to liquid jet. These garments offer excellent chemical permeation protection against an extensive range of chemicals, including numerous toxic industrial organic chemicals and highly concentrated inorganic chemicals.

Cat. III



EN 14605:2005



Type 3-B

EN 14605:2005



Type 4-B

EN ISO 13982-1: 2004



Type 5-B

EN 13034:2005



Type 6-B

EN 1073-2:2002



EN 1149-5:2018



EN 14126:2003





Transmission

In the transmission lines, there are specialized activities, such as inspection and maintenance on specific equipment, requiring constant supervision and excellent skills of the electricians.

Tasks

Operation and maintenance stream airline networks and substations

Operation and switching equipment

Maintenance of energized networks

Execution of temporary grounding

Hazards

Heat

Electromagnetic field

Voltage

Arc flash

Cuts

Dust

For a full list of PPE solutions, visit SafeSPEC™.



Available PPE options

For excellent arc flash protection combined with outstanding heat and flame protection in a lightweight solution:



Nomex® Xtreme Arc

The most innovative Nomex® offering for arc flash and FR protection. Nomex® Xtreme Arc provides an ATPV of 12 to 19 cal/cm² and single-layer comfort, making it an ideal choice for workers confronted with high-risk electrical exposure.

EN ISO 11612: 2015



A1 B1 C1 F1

IEC 61482-2: 2018



ATPV >12 cal/cm²
APC: Class 1

EN 1149-5: 2018



NOTE: Results may vary depending on the garment manufacturer.

For a balance of multi-hazard hand protection against arc flash and cuts combined with enhanced dexterity:



SHOWA 240

Lightweight and comfortable, these 13-gauge gloves lined with Kevlar® have a sponge neoprene palm coating. Flame resistant Kevlar® fiber helps enable protection against arc flash up to ATPV 9.2 cal/cm², according to open arc/box tests. Flat dipped sponge neoprene coating provides enhanced grip and the anatomical design helps prevent hand fatigue.

Cat. III



EN 388:2016



3X31C

EN 388:2003



3531

EN 407:2004



42212X



ATPV 9.2 cal/cm²

NOTE: EN 388:2016 and EN 407:2020 are equivalent to ISO 23388:2018 and future ISO 23407, respectively.

For protection against dirt without compromising flame resistance or arc flash protection:



ProShield® 20 SFR

ProShield® 20 SFR garments meet the requirements of EN 14116 Index 1 (limited flame spread) and provide protection against contamination by dust, dirt particles and limited liquid splashes or sprays of water-based liquids. This coverall should be worn on top of an FR garment, such as a garment made of Nomex® Xtreme Arc.

Cat. III



EN ISO 13982-1: 2004



Type 5

EN 13034:2005



Type 6

EN 14126:2003



EN 1073-2:2002



EN 1149-5:2018



EN 14116:2015
Index 1



Transmission

In the transmission lines, there are specialized activities, such as inspection and maintenance on specific equipment, requiring constant supervision and excellent skills of the electricians.

Tasks

Operation and maintenance stream airline networks and substations

Operation and switching equipment

Maintenance of energized networks

Execution of temporary grounding

Hazards

Heat

Electromagnetic field

Voltage

Arc flash

Cuts

Dust

For a full list of PPE solutions, visit SafeSPEC™.



For an ideal balance of protection, durability and comfort combined with an inherent barrier against fine particles and where an FR hazard is not present:



Tyvek® 500 Xpert

Tyvek® is permeable to both air and water vapor yet repels water-based liquids and aerosols. Tyvek® provides an ideal balance of protection, durability and comfort. Tyvek® 500 Xpert garments offer an excellent barrier against fine particles and fibers (down to 1 micron in size) and are antistatically treated on both sides.

Cat. III



EN ISO 13982-1: 2004



Type 5-B

EN 13034: 2005



Type 6-B

EN 14126: 2003



EN 1073-2: 2002



EN 1149-5: 2018





Distribution

There are several relevant activities in the distribution systems, with a special focus on the construction, operation and maintenance of distribution networks (energized and de-energized).*

Tasks

Maintenance at underground distribution systems

Hazards

Heat

Explosion

Confined spaces

Arc flash

Electromagnetic field

Dust

Biological agents

Sewage

Dirty job

*Before conducting any work on underground distribution systems, the workers must use the gas detector, ventilate the workplace and have all the protection (including PPE) and rescue equipment available.

For a full list of PPE solutions, visit [SafeSPEC™](#).



Available PPE options

For excellent arc flash protection combined with outstanding heat and flame protection in a lightweight solution:



Nomex® Xtreme Arc

The most innovative Nomex® offering for arc flash and FR protection. Nomex® Xtreme Arc provides an ATPV of 12 to 19 cal/cm² and single-layer comfort, making it an ideal choice for workers confronted with high-risk electrical exposure.

EN ISO 11612: 2015



A1 B1 C1 F1

IEC 61482-2: 2018



ATPV >12 cal/cm²
APC: Class 1

EN 1149-5: 2018



NOTE: Results may vary depending on the garment manufacturer.

For a balance of multi-hazard hand protection against arc flash and cuts combined with enhanced dexterity:



SHOWA 240

Lightweight and comfortable, these 13-gauge gloves lined with Kevlar® have a sponge neoprene palm coating. Flame resistant Kevlar® fiber helps enable protection against arc flash up to ATPV 9.2 cal/cm², according to open arc/box tests. Flat dipped sponge neoprene coating provides enhanced grip and the anatomical design helps prevent hand fatigue.

Cat. III



EN 388:2016



3X31C

EN 388:2003



3531

EN 407:2004



42212X



ATPV 9.2 cal/cm²

NOTE: EN 388:2016 and EN 407:2020 are equivalent to ISO 23388:2018 and future ISO 23407, respectively.

For protection against dirt without compromising flame resistance or arc flash protection:



ProShield® 20 SFR

ProShield® 20 SFR garments meet the requirements of EN 14116 Index 1 (limited flame spread) and provide protection against contamination by dust, dirt particles and limited liquid splashes or sprays of water-based liquids. This coverall should be worn on top of an FR garment, such as a garment made of Nomex® Xtreme Arc.

Cat. III



EN ISO 13982-1: 2004



Type 5

EN 13034:2005



Type 6



EN 1073-2:2002



EN 1149-5:2018



EN 14116:2015
Index 1



Distribution

There are several relevant activities in the distribution systems, with a special focus on the construction, operation and maintenance of distribution networks (energized and de-energized).*

Tasks

Maintenance at underground distribution systems

Hazards

Heat

Explosion

Confined spaces

Arc flash

Electromagnetic field

Dust

Biological agents

Sewage

Dirty job

*Before conducting any work on underground distribution systems, the workers must use the gas detector, ventilate the workplace and have all the protection (including PPE) and rescue equipment available.

For a full list of PPE solutions, visit [SafeSPEC™](#).



For protection against chemicals, biological hazards and hazardous particulates and where an FR hazard is not present:



Tyvek® 800 J

Robust yet lightweight, Tyvek® 800 J garments provide an effective barrier against many low-concentrated inorganic chemicals (even under pressure) and small-sized hazardous particulates, as well as oil repellency. Ideal for cleaning operations with water pressure jets.

Cat. III



EN 14605:2005



Type 3-B

EN 14605:2005



Type 4-B

EN ISO 13982-1: 2004



Type 5-B

EN 13034:2005



Type 6-B

EN 1149-5:2018



EN 14126:2003



EN 1073-2



Tyvek® 500 Xpert

Tyvek® is permeable to both air and water vapor yet repels water-based liquids and aerosols. Tyvek® provides an ideal balance of protection, durability and comfort. Tyvek® 500 Xpert garments offer an excellent barrier against fine particles and fibers (down to 1 micron in size) and are antistatically treated on both sides.

Cat. III



EN ISO 13982-1: 2004



Type 5-B

EN 13034: 2005



Type 6-B

EN 14126: 2003



EN 1073-2: 2002



EN 1149-5: 2018



Tyvek® 500 HP

Tyvek® 500 HP is designed to protect workers operating at height or in confined spaces who require chemical protection at the same time. The lightweight Tyvek® fabric offers a high level of comfort and durability combined with superior protection against chemicals and biological hazards, while the unique design of this garment protects the safety harness worn underneath by housing the rope lanyard within a sealed compartment.

Cat. III



EN ISO 13982-1: 2004



Type 5-B

EN 13034: 2005



Type 6-B

EN 14126: 2003



EN 1073-2: 2002



EN 1149-5: 2018





Distribution

The de-energized distribution network groups are historically the groups with more accidents in the distribution system, including accidents by shock and electric arc.

Tasks

Maintenance of energized networks

Servicing electrical substation panels

Hazards

Arc flash

Cuts

Dust

Electromagnetic field

Heat

For a full list of PPE solutions, visit SafeSPEC™.



Available PPE options

For excellent arc flash protection combined with outstanding heat and flame protection in a lightweight solution:



Nomex® Xtreme Arc

The most innovative Nomex® offering for arc flash and FR protection. Nomex® Xtreme Arc provides an ATPV of 12 to 19 cal/cm² and single-layer comfort, making it an ideal choice for workers confronted with high-risk electrical exposure.

EN ISO 11612: 2015



A1 B1 C1 F1

IEC 61482-2: 2018



ATPV >12 cal/cm²
APC: Class 1

EN 1149-5: 2018



NOTE: Results may vary depending on the garment manufacturer.

For hand protection, but arc flash protection is not required:



Duraflex KSG350

These gloves feature Kevlar® high-performance fibers and a Techfoam coating for superior protection against abrasion and cuts combined with great dexterity and grip—even in the presence of oils and lubricants.

Cat. III



EN 388:2016



4331D

EN 407:2004



X1XXXX

NOTE: EN 388:2016 and EN 407:2020 are equivalent to ISO 23388:2018 and future ISO 23407, respectively.

For a balance of multi-hazard hand protection against arc flash and cuts combined with enhanced dexterity:



SHOWA 240

Lightweight and comfortable, these 13-gauge gloves lined with Kevlar® have a sponge neoprene palm coating. Flame resistant Kevlar® fiber helps enable protection against arc flash up to ATPV 9.2 cal/cm², according to open arc/box tests. Flat dipped sponge neoprene coating provides enhanced grip and the anatomical design helps prevent hand fatigue.

Cat. III



EN 388:2016



3X31C

EN 388:2003



3531

EN 407:2004



42212X



ATPV 9.2 cal/cm²

NOTE: EN 388:2016 and EN 407:2020 are equivalent to ISO 23388:2018 and future ISO 23407, respectively.



Distribution

The de-energized distribution network groups are historically the groups with more accidents in the distribution system, including accidents by shock and electric arc.

Tasks

Maintenance of energized networks

Servicing electrical substation panels

Hazards

Arc flash

Cuts

Dust

Electromagnetic field

Heat

For a full list of PPE solutions, visit SafeSPEC™.



For protection against dirt without compromising flame resistance or arc flash protection:



ProShield® 20 SFR

ProShield® 20 SFR garments meet the requirements of EN 14116 Index 1 (limited flame spread) and provide protection against contamination by dust, dirt particles and limited liquid splashes or sprays of water-based liquids. This coverall should be worn on top of an FR garment, such as a garment made of Nomex® Xtreme Arc.

Cat. III



EN ISO 13982-1: 2004



Type 5

EN 13034:2005



Type 6

EN 14126:2003



EN 1073-2:2002



EN 1149-5:2018



EN 14116:2015
Index 1

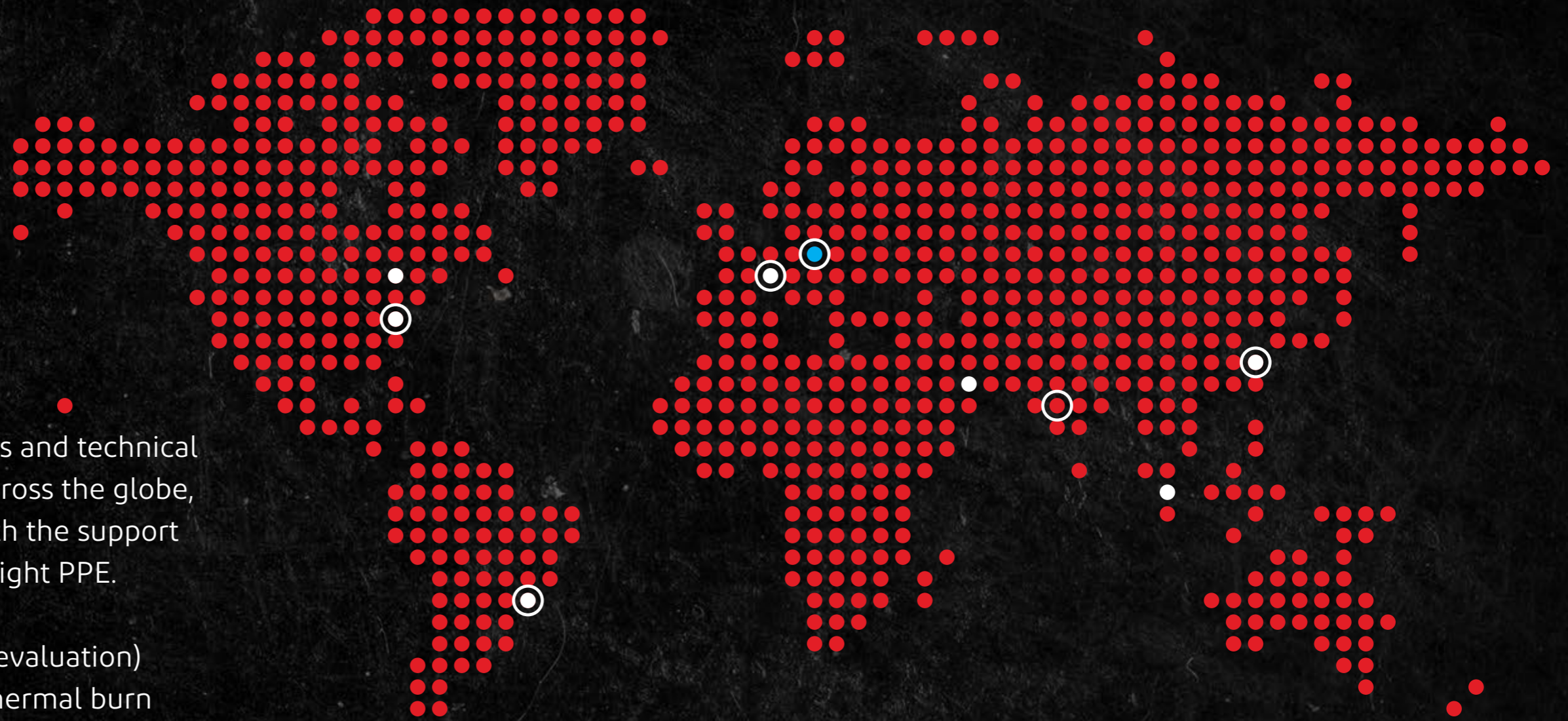
For a full list of PPE solutions, visit SafeSPEC™.



Taking
protection to
new heights



Global reach



With operations in 96 countries and technical centers staffed with experts across the globe, we are here to provide you with the support you need when choosing the right PPE.

Our Arc-Man[®] (arc flash injury evaluation) and Thermo-Man[®] (life-sized thermal burn injury evaluation) units provide compelling demonstrations that help educate industrial workers about the durability and heat, flame and electric arc resistance that DuPont Safety PPE delivers.

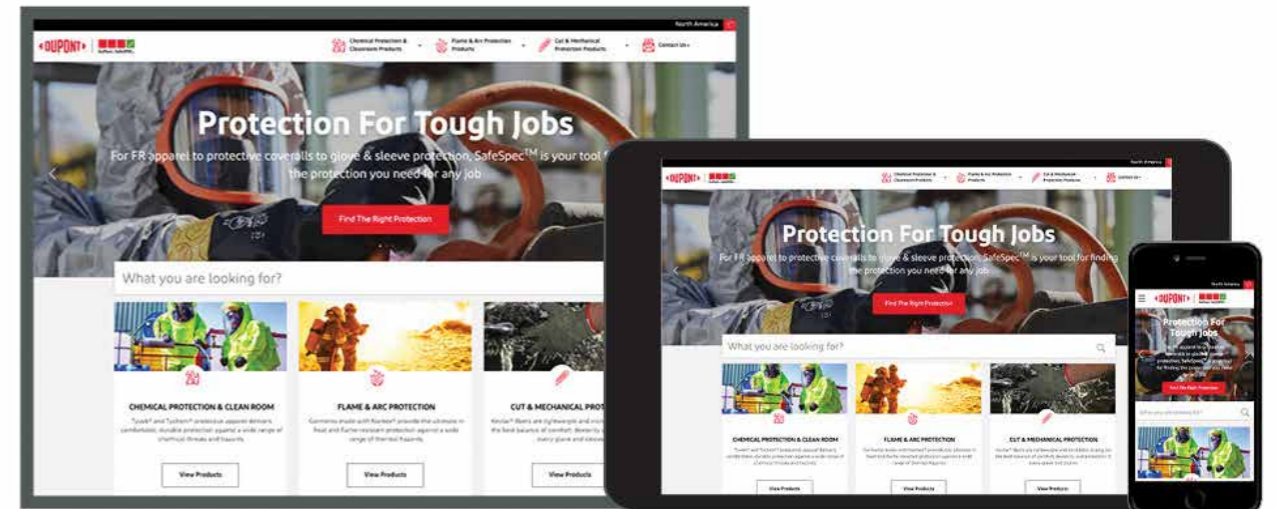
○ Technical centers ● Thermo-Man[®] Units ● Arc-Man[®] Units

We're here to help

DuPont™ SafeSPEC™, our powerful web-based tool, can assist you with finding the appropriate DuPont garments for chemical, controlled environment, thermal, electric arc and mechanical hazards.

SafeSPEC™ has a full permeation test results database for Tychem® fabrics and allows you to search by either hazard or industry to help you find the right protection for the job at hand.

safespec.dupont.co.uk



«DUPONT»

Kevlar | **Nomex** | **Tyvek** | **Tychem** | **ProShield**

DuPont Personal Protection

safespec.dupont.co.uk

dpp.dupont.com

in. DuPont Personal Protection

🐦 @DuPontPPE

****WARNING:** Tyvek®, ProShield®, and most Tychem® garments, including Tychem® 2000 Tape, should not be used around heat, flames, sparks or in potentially flammable or explosive environments.

Only Tychem® 6000 FR and Tychem® 10000 FR garments are designed and tested to help reduce injury during escape from a flash fire. ProShield® 6 SFR and Tychem® 2000 SFR garments offer secondary flame resistance and are designed to be used over primary flame-resistant garments, included but not limited to, Nomex® Essential (Nomex® IIIA) or Nomex® Comfort garments. Users of Tychem® 10000 FR, Tychem® 6000 FR, Tychem® 2000 SFR, and ProShield® 6 SFR garments should not knowingly enter an explosive environment. Consult the Tychem® User Manual, located on our website, for instructions on proper use, care and maintenance of your Tychem® garments.

¹ ProShield® 6 SFR and Tychem® 2000 SFR coveralls provide only secondary flame-resistant protection. They must always be worn over an appropriate primary flame-resistant garment in an environment that needs flame protection, along with other personal protective equipment that protects your face, hands and feet.

² Do not wear non-flame-resistant garments in potentially flammable or explosive environments. Instead, consider use of flame-resistant or secondary flame-resistant garments, which must be worn over primary flame-resistant garments.

This information is based upon technical data that DuPont believes to be reliable. It is subject to revision as additional knowledge and experience become available. It is the user's responsibility to determine the level of toxicity and the proper personal protective equipment needed. This information is intended for use by persons having the technical expertise to undertake evaluation under their own specific end-use conditions, at their own discretion and risk. Anyone intending to use this information should first check that the garment selected is suitable for the intended use. The end-user should discontinue use of garment if fabric becomes torn, worn or punctured, to avoid potential chemical exposure. Since conditions of use are beyond our control, DUPONT MAKES NO WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING BUT NOT LIMITED TO WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE AND ASSUME NO LIABILITY IN CONNECTION WITH ANY USE OF THIS INFORMATION. This information is not intended as a license to operate under or a recommendation to infringe any patent or technical information of DuPont or other persons covering any material or its use.

© 2021 DuPont. All rights reserved. DuPont™, the DuPont Oval Logo, and all trademarks and service marks denoted with ™, SM or ® are owned by affiliates of DuPont de Nemours, Inc. unless otherwise noted.
UT-2021-EN (07/21)