THE BRANDS YOU WANT
The protection you need
Flame Resistant Clothing
Cintas is the largest provider of managed flame resistant clothing (FRC) programs. Over half a million wearers get Ready for the Workday with FRC from Cintas—the most trusted source for FRC apparel in North America. With our professional commitment and diverse options, Cintas offers FRC products from manufacturers who engineer them to be more durable, more comfortable and lighter than any other garments of their type.

OSHA regulations require employers to provide their employees with personal protective equipment (PPE) in certain work environments to reduce employee exposure to hazards.

If you answered YES to any of these questions, you should consult with a safety professional to determine whether a protective apparel program may be required.

As an employer, it is your responsibility to comply with industry standards and OSHA regulations to protect your employees from hazards they may encounter. After you have consulted with a safety professional and determined your employees’ PPE needs, Cintas can provide that PPE and design a laundry service program to fit your company’s needs.

*Pursuant to OSHA regulations, 29 CFR 1910.132 (Subpart I), an employer bears sole responsibility for selecting the type(s) of personal protective equipment to be used by its employees. All purchasers of FRC garments and/or laundering services from Cintas bear full responsibility for selecting the PPE appropriate for use by their employees. Cintas makes no representation, warranty, or covenant with respect to the flame-resistant qualities of the garments or with respect to the fitness or suitability of the garments for any particular use or purpose. The purchase of any goods or services from Cintas is subject to Cintas’s Standard Terms and Conditions and/or any other applicable written contract executed between the purchaser and Cintas relating to such purchase.
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**WHAT IS AN ARC FLASH?**

OSHA’s Workplace Safety Awareness Council defines an arc flash as a phenomenon where a flashover of electric current leaves its intended path and travels through the air from one conductor to another, or to the ground. The results are often violent and when a human is in close proximity to the arc flash, serious injury or even death can occur.

**ARC FLASH DANGERS INCLUDE:**

- Fire (could spread rapidly through building)
- Flying objects (often molten metal)
- Blast pressure (upwards of 2,000 lbs/sq.ft)
- Sound Blast (noise can reach 140 dB — as loud as a jet taking off)

**NFPA 70E**

NFPA 70E is the industry standard that outlines how to protect your employees and help your company comply with government regulations. NFPA 70E applies to personnel working on energized equipment greater than 50 volts or equipment that could produce an arc flash.

NFPA 70E states: “Employees shall wear arc-rated clothing wherever there is a possible exposure to an electric arc flash.”

**DID YOU KNOW?**

Many serious injuries and deaths resulting from an electric arc flash are caused by flammable garments igniting, continuing to burn and then melting to the victim’s skin.

**MORE THAN 2,000 PEOPLE PER YEAR ARE TREATED IN BURN CENTERS WITH SEVERE ARC FLASH INJURIES**

Source: Workplace Safety Awareness Council

**OVER 30,000 ARC FLASH INCIDENTS OCCUR EVERY YEAR**

Source: Workplace Safety Awareness Council

**AN ELECTRIC ARC FLASH CAN REACH UP TO 35,000°F**

3X HOTTER THAN THAN THE SURFACE OF THE SUN

Source: Electrical Contractor Magazine

**WORKDAY HAZARD**

Source: Workplace Safety Awareness Council
NFPA 70E suggests a simplified approach to provide adequate PPE for electrical workers within facilities with large and diverse electrical systems.


**CATEGORY 2**
**REQUIRED PPE**
Also fulfills NFPA 70E requirement of Category 1

- Safety glasses or goggles
- Hearing protection (inserts)
- Insulated rubber gloves with leather protectors
- EH heavy-duty leather footwear
- Arc rated long sleeve shirt/coverall (8.0 ATPV or higher)
- Arc rated long pants/coverall (8.0 ATPV or higher)
- Hard hat with Arc rated face shield and balaclava
- Arc rated coveralls
- Arc rated (40 cal) Arc Flash suit jacket
- Arc rated (40 cal) Arc Flash suit pants
- Arc rated (40 cal) Arc Flash suit hood

**CATEGORY 4**
**REQUIRED PPE**
Also fulfills NFPA 70E requirement of Category 3

**WORKDAY HAZARD**

**WHAT IS MOLTEN METAL SPLASH?**
Molten metal splash can occur when moisture or wet materials are introduced to the molten bath, which causes the metal to explode and potentially throw dangerous molten metal into the air.

Molten metal hazards are also present in welding and grinding from:
- Welding slag
- Sparks
- Heated metal debris

**THE CORRECT GARMENTS MATTER**
Some manufacturers design specific flame resistant garments to guard against molten metal splash. They are designed to shed the material when it hits the fabric, rather than sticking to the fabric and continuing to burn the garment.

**DID YOU KNOW?** When welding, small pinholes and charring may occur in the garment after extended use. However, the FR properties of the garments help to prevent full ignition and continued combustion.

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WHAT IS A FLASH FIRE?
A fire that spreads by means of a flame front rapidly through a diffuse fuel, such as dust, gas, or the vapors of an ignitable liquid, without the production of damaging pressure.
Source: NFPA 2112

INDUSTRIES FREQUENTLY FACING FLASH FIRE HAZARDS:
- Oil and gas drilling
- Chemical manufacturing and processing
- Oil refining
- Manufacturing facilities with combustible dust (grain, food, coal, wood, paper, plastics and many more)

COMBUSTIBLE DUST
Any combustible material can burn rapidly when in a finely divided form. If such a dust is suspended in air in the right concentration, under certain conditions, it can become explosible. Even materials that do not burn in larger pieces (such as aluminum or iron), given the proper conditions, can be explosible in dust form.
Source: OSHA, Combustible Dust: An Explosion Hazard

PROTECTING YOUR EMPLOYEES IS CRITICAL AND MANDATORY UNDER OSHA
OSHA 29 CFR 1910.132(A)
OSHA enforces policy 29 CFR 1910.132(a), the general industry standard for Personal Protective Equipment (PPE). This policy explains OSHA’s position on requiring employers to provide Flame Resistant Clothing (FRC) in oil and gas well drilling, servicing and production related operations.

NFPA 2112 AND NFPA 2113
NFPA 2112 is the Standard on Flame Resistant Garments For Protection of Industrial Personnel Against Flash Fire. This standard provides minimum requirements for the design, construction, evaluation and certification of flame resistant garments.
NFPA 2113 specifies the minimum selection, care, use and maintenance requirements for flame resistant garments.

DID YOU KNOW? NFPA 2113 states that the employer is responsible for ensuring proper fit, use and maintenance of PPE, and that garments are:
- Inspected for damage and/or contamination
- Cleaned per manufacturer’s specifications
- Repaired with like FR materials
- Retired systematically from service

FLASH FIRE REQUIRE:
A FUEL SOURCE, OFTEN SUSPENDED IN AIR, OXYGEN AND AN IGNITION SOURCE

ON AVERAGE, MORE THAN
14,000
INDUSTRIAL INJURIES DUE TO THERMAL BURNS OCCUR IN THE U.S. EACH YEAR
Source: BLS Data

HYDROCARBON (OIL & GAS)
FLASH FIRES CAN GENERATE TEMPERATURES 1,000°–1,900°F

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ADVANTAGES OF A MANAGED INDUSTRIAL LAUNDRY PROGRAM:

1. PROPER LAUNDERING
Using appropriate water temperatures, water softness and chemical formulas.

2. WEEKLY INSPECTION AND REPAIR
Searching garments for holes, missing buttons and broken zippers and repairing with FR materials.

3. PROACTIVE REPLACEMENT
Retiring garments from service.

THE TRUCOUNT™ INVENTORY MANAGEMENT SYSTEM
ACCURATE TRACKING OF YOUR UNIFORMS THROUGHOUT THE SERVICE PROCESS
With our TruCount™ Inventory Management System, every garment is scanned so we know, and you know, exactly where your garments are at all times. It’s communication, accountability and reliability delivered to you weekly by your Cintas Service Sales Representative.

MANAGING YOUR FRC PROGRAM

A PROGRAM TO FIT YOUR NEEDS

Once you have identified the appropriate PPE for your employees, we have options for rental, lease, purchase or even a combination of all three different program types; all based on the specific needs of your workforce.

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We can even add your company’s logo and employees names to your garments for a custom look. Also, if the size of your workforce increases, we keep you Ready™ with additional uniforms for your employees.

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With our professional commitment and diverse options, Cintas offers FRC products from manufacturers who engineer them to be more durable, more comfortable and lighter than any other garments of their type.

CARHARTT® FR RENTAL WORKWEAR

294 CARHARTT® FR SHIRT
6.5 oz, 88% Cotton/12% high tenacity Nylon
Khaki (62), Light Blue (80), Navy (20)
ATPV 9.5 | ARC 2 | UL 2112 Certified | ASTM 1506

297 CARHARTT® FR LONG SLEEVE T-SHIRT
6.7 oz, 45% Modacrylic/35% Cellulosic/20% Aramid
Royal Blue (26)
ATPV 8.2 | ARC 2 | UL 2112 Certified | ASTM 1506

347 CARHARTT® DUAL-HAZARD FR SHIRT
6.5 oz, 48% Tencel/40% Modacrylic/12% Aramid
Royal Blue (26)
ATPV 8.9 | ARC 2 | UL 2112 Certified | ASTM 1506

392 CARHARTT® FEATHERWEIGHT FR WORK SHIRT
5.3 oz, GlenGuard® ULTRALIGHT
74% Meta-Aramid/20% Modacrylic/5% Para-Aramid/1% Anti-Stat
Gray (31), Navy (20)
ATPV 9.5 | ARC 2 | UL 2112 Certified
CARHARTT® FR RENTAL WORKWEAR

371 CARHARTT® FR PANT
9 oz, 88% Cotton/12% high tenacity Nylon twill
Navy (20)
ATPV 12.2  |  ARC 2  |  UL 2112 Certified  |  ASTM 1506

73478 CARHARTT® FEATHERWEIGHT FR CARPENTER PANT
6.4 oz, GlenGuard® Twill
79% Meta-Aramid/20% Modacrylic/1% Anti-Stat Navy (20)
ATPV 10.1  |  ARC 2  |  UL 2112 Certified

344 CARHARTT® FR CARGO PANT
8.5 oz, 48% Tencel™/40% Modacrylic/12% Aramid
Navy (20)
ATPV 8.8  |  ARC 2  |  UL 2112 Certified

280 CARHARTT® FR JEAN
14.25 oz, 100% FR Cotton Denim (83)
ATPV 20  |  ARC 2  |  UL 2112 Certified

290 CARHARTT® FR CARPENTER JEAN
11.75 oz, 100% FR Cotton Denim (83)
ATPV 15.6  |  ARC 2  |  UL 2112 Certified

CARHARTT® FR RENTAL WORKWEAR
Rental FR Workwear
Only from cintas.com/frc
CARHARTT® FR E-VIS AND HI-VIS WORKWEAR

59294 CARHARTT® FR HI-VIS SHIRT
6.5 oz, 88% Cotton/12% high tenacity Nylon
Hi-Visibility Yellow (71)
ATPV 9.5 | ARC 2 | ANSI Class III
UL 2112 Certified | ASTM 1506
Does not meet ANSI 107 visibility requirement for Hi-Vis garments.

59287 CARHARTT® FEATHERWEIGHT FR E-VIS COVERALL
5.3 oz, GlenGuard® ULTRALIGHT
74% Meta-Aramid/20% Modacrylic/5% Para-Aramid/1% Anti-Stat
Gray (31), Navy (20)
ATPV 9.5 | ARC 2 | UL 2112 Certified
Does not meet ANSI 107 visibility requirement for Hi-Vis garments.

59387 CARHARTT® FEATHERWEIGHT FR E-VIS COVERALL
5.3 oz, GlenGuard® ULTRALIGHT
74% Meta-Aramid/20% Modacrylic/5% Para-Aramid/1% Anti-Stat
Gray (31), Navy (20)
ATPV 9.5 | ARC 2 | UL 2112 Certified
Does not meet ANSI 107 visibility requirement for Hi-Vis garments.

63680 CARHARTT® FR ENHANCED VISIBILITY SHIRT
6.5 oz, 88% Cotton/12% high tenacity Nylon
Light Blue (80), Navy (20)
ATPV 9.5 | ARC 2 | UL 2112 Certified | ASTM 1506
Does not meet ANSI 107 visibility requirement for Hi-Vis garments.

63686 CARHARTT® FR ENHANCED VISIBILITY COVERALL
7 oz, 88% Cotton/12% high tenacity Nylon twill
Navy (20)
ATPV 8.5 | ARC 2 | UL 2112 Certified | ASTM 1506
Does not meet ANSI 107 visibility requirement for Hi-Vis garments.

63685 CARHARTT® FR ENHANCED VISIBILITY PANT
9 oz, 88% Cotton/12% high tenacity Nylon twill
Navy (20)
ATPV 12.2 | ARC 2 | UL 2112 Certified | ASTM 1506
Does not meet ANSI 107 visibility requirement for Hi-Vis garments.

63682 CARHARTT® FR ENHANCED VISIBILITY WORKSHIRT
5.3 oz, GlenGuard® ULTRALIGHT
74% Meta-Aramid/20% Modacrylic/5% Para-Aramid/1% Anti-Stat
Gray (31), Navy (20)
ATPV 9.5 | ARC 2 | UL 2112 Certified
Does not meet ANSI 107 visibility requirement for Hi-Vis garments.
ENHANCED VISIBILITY
FR GARMENTS

64308 TECASAFE® PLUS SHIRT
WITH REFLECTIVE TRIM
7 oz, 48% Modacrylic/37% Lyocell/15% Aramid
Khaki (62)
ATPV 9 | ARC 2 | UL 2112 Certified
Does not meet ANSI 107 visibility requirement
for Hi-Vis garments.

61286 ORANGE E-VIS FR WORKSHIRT
7 oz, 88% Cotton/12% high tenacity Nylon
Orange (13)
ATPV 8.6 | ARC 2 | UL 2112 Certified
Does not meet ANSI 107 visibility requirement
for Hi-Vis garments.

FLAME RESISTANT
CLOTHING

7733 TECASAFE® PLUS SHIRT
7 oz, 48% Modacrylic/37% Lyocell/15% Aramid
Khaki (62), Light Blue (80)
ATPV 9 | ARC 2 | UL 2112 Certified

656 NOMEX® IIIA SHIRT
4.5 oz, 93% Nomex®/5% Kevlar®/2% other fiber
Light Blue (82), Navy (20)
ATPV 4.6 | ARC 1 | UL 2112 Certified

746 NOMEX® IIIA PANTS
7.5 oz, 93% Nomex®/5% Kevlar®/2% other fiber
Navy (20)
ATPV 6.9 | ARC 1 | UL 2112 Certified

8803 TECASAFE® PLUS PANT
8.5 oz, 47% Modacrylic/37% Lyocell/16% Aramid
Navy (20)
ATPV 11 | ARC 2 | UL 2112 Certified

Does not meet ANSI 107 visibility requirement
for Hi-Vis garments.
CARHARTT® FR OUTERWEAR

74634 CARHARTT® FULL SWING® QUICK DUCK® FR COAT
88% cotton/12% nylon Quick Duck® canvas; 150 gram 3M™ Thinsulate™ Platinum Insulation FR
Navy (20)
ATPV 36 | ARC 3 | UL 2112 Certified

78150 CARHARTT® QUICK DUCK® FR BIB OVERALL
88% cotton/12% nylon Quick Duck® canvas; 150 gram 3M™ Thinsulate™ Platinum Insulation FR
Navy (20)
ATPV 36 | ARC 3 | UL 2112 Certified

391 CARHARTT® FR COVERALL
7 oz, 88% Cotton/12% high tenacity Nylon twill
Navy (20)
ATPV 8.6 | ARC 2 | UL 2112 Certified | ASTM 1506

387 CARHARTT® FEATHERWEIGHT FR COVERALL
5.3 oz, GlenGuard® ULTRALIGHT
74% Meta-Aramid/20% Modacrylic/5% Para-Aramid/1% Anti-Stat
Gray (31), Navy (20)
ATPV 9.5 | ARC 2 | UL 2112 Certified
80309 NOMEX® IIIA VEST/JACKET LINER
93% Nomex®/7% Kevlar®/2% other fiber
Navy (20)
ATPV 37 | ARC 3 | UL 2112 Certified
(Con be worn with 61356 or 9585)

64356 EXCEL FR® JACKET LINER
88% Cotton/12% high tenacity Nylon with 12oz. modacrylic insulation
Navy (20)
ATPV 43.3 | ARC 4 | UL 2112 Certified

60079 ORANGE E-VIS FR JACKET
9 oz, 88% Cotton/12% high tenacity Nylon
Orange (13)
ATPV 12.2 | ARC 2
Does not meet ANSI 107 visibility requirement for Hi-Vis garments.
(Can be worn with liner 60078)

61356 EXCEL FR® BOMBER JACKET
88% Cotton/12% high tenacity Nylon with 7 oz. 100% Cotton lining
Navy (20)
ATPV 30.4 | ARC 3 | UL 2112 Certified

8723 TECASAFE® PLUS COVERALL
7 oz, 47% Modacrylic/37% Lyocell/16% Aramid
Navy (20)
ATPV 11 | ARC 2 | UL 2112 Certified

9585 E-VIS EXCEL FR® BOMBER JACKET
88% Cotton/12% high tenacity Nylon with 7 oz. 100% Cotton lining
Navy (20)
ATPV 30.4 | ARC 3 | UL 2112 Certified
Does not meet ANSI 107 visibility requirement for Hi-Vis garments.

64307 TECASAFE® PLUS COVERALL
WITH REFLECTIVE TRIM
7 oz, 47% Modacrylic/37% Lyocell/16% Aramid
Navy (20)
ATPV 11 | ARC 2 | UL 2112 Certified
Does not meet ANSI 107 visibility requirement for Hi-Vis garments.
Flash fires represent a significant exposure for the more than 110,000 graduate and post-doctoral researchers working in university research labs across the U.S. According to estimates by the U.S. Chemical Safety Board (CSB).

Cintas makes no representation, determination, or suggestion concerning whether any garment or textile, including but not limited to laboratory or clinical garments or textiles of any type, is appropriate or suitable for use by any individual or any institution. The institution is solely responsible for conducting hazard assessments to evaluate potential hazards and for making any determinations relating to product selection, including the selection of appropriate primary and/or secondary personal protective equipment. Cintas shall have no liability to the facility, its employees, its students, or to any other person or entity relating to Cintas’s provision of garments, textiles, or personal protective equipment or any services related thereto.
ADDITIONAL PERSONAL PROTECTIVE EQUIPMENT

Further, pursuant to federal and state statutes and regulations, an employer bears sole responsibility for selecting the type(s) of safety, emergency and personal protective equipment to be used by its employees. ALL PURCHASERS OF SAFETY AND PERSONAL PROTECTIVE EQUIPMENT FROM CINTAS BEAR FULL RESPONSIBILITY FOR SELECTING THE SAFETY AND PERSONAL PROTECTIVE EQUIPMENT APPROPRIATE FOR USE BY THEIR EMPLOYEES. CINTAS MAKES NO REPRESENTATION, WARRANTY, OR COVENANT WITH RESPECT TO FITNESS OR SUITABILITY OF SAFETY AND PERSONAL PROTECTIVE EQUIPMENT FOR ANY PARTICULAR USE OR PURPOSE.

PUREVIEW™ 12 CAL FACESHIELD
SLOTTED ADAPTER WITH HARD HAT
74503, 12 CAL Pureview™ Faceshield
74501, MSA Slotted Hard Hat

82337 ULTRASOFT® BALA CLAVA
ATPV 12 | ARC 2

LEATHER PROTECTORS
86938, 10” Length
86939, 12” Length

RUBBER VOLTAGE GLOVES
86932, 11” Length, Class 00
Red (15), Black (35), Yellow (70)
86933, 11” Length, Class 0
Red (15), Black (35), Yellow (70)
86935, 14” Length, Class 2
Black (35), Yellow (70)

60081 CARHARTT® FR BASE LAYER
6 oz, 93% Cotton/7% Spandex
Navy (20), Gray (30)
ATPV 7.4 | ARC 1 | UL 2112 Certified
*Available in SS and RG

60196 CANVAS GLOVE BAG

ARC FLASH SUIT

cintas.com/frc