



# Mining Safety Guide

The mining sector is one of the most demanding and high-risk industries. Every day, workers operate in complex conditions where dangers are numerous: falls, collapses, air quality issues, deafening noise, and moving heavy equipment. In this environment, safety is not an option; it is a necessity.

Your safety and that of your team must remain at the heart of every operation. This guide was designed to present equipment, services, and practices that help create a safer, healthier, and more productive work environment.

### Some key figures to raise awareness

- In Canada, the mining sector accounts for approximately **4% of all reported workplace accidents** each year (source: CNESST).
- In the United States, according to the MSHA (Mine Safety and Health Administration), nearly **20% of industrial fatalities occur in mines**, often due to falls, collapses, or exposure to hazardous gases.
- A Canadian study highlights that **more than half of serious incidents in mines are preventable** through the strict application of standards and the use of appropriate equipment.

### Your legal obligations

To ensure safety in the mining environment, several standards and regulations must be followed:



- **CSA Z1006** standard on work in confined spaces.
- Provincial regulations (e.g., CNESST in Quebec, WSIB in Ontario).
- Canada Labour Code, **Part II**, on occupational health and safety.



# SAFETY HARNESS

## *Inspection*

### STRAPS AND MATERIALS

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- NO CUTS, TEARS, OR ABRASIONS ON THE STRAPS.
- NO BURNS CAUSED BY CHEMICALS OR HEAT.
- NO FRAYING OR WORN AREAS THAT COULD WEAKEN STRENGTH.

### STITCHING AND SAFETY THREADS

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- STITCHING INTACT, WITH NO LOOSE THREADS OR ABNORMAL DISCOLORATION.
- NO SIGNS OF BREAKAGE OR DETERIORATION IN LOAD-BEARING STITCHING.

### BUCKLES AND ADJUSTMENTS

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- NO CRACKS, CORROSION, OR DEFORMATION OF BUCKLES AND FASTENERS.
- BUCKLES SLIDE AND LOCK PROPERLY.
- ENSURE STRAPS PASS CORRECTLY THROUGH THE BUCKLES AND ARE NOT TWISTED.

### DORSAL D-RING AND OTHER ATTACHMENT POINTS

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- THE D-RING MUST BE SECURELY FASTENED AND FREE OF CRACKS OR CORROSION.
- NO SIGNS OF EXCESSIVE WEAR OR ALTERED WELDING.

### LABELS AND MARKINGS

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- THE MANUFACTURER'S LABEL MUST BE LEGIBLE AND DISPLAY THE MODEL, MANUFACTURING DATE, AND COMPLIANCE WITH STANDARDS.
- NO SIGNS OF TAMPERING OR UNAUTHORIZED ALTERATIONS.

# Protective Clothing



**Kosto CSA Standard Hi-Viz Work Shirt**

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**Kosto Long Sleeve Work Shirt with 4" Perforated Reflective Tape**

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**Kosto 5 in 1 Winter Jacket with 4" Reflective Tape**

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**Kosto Microporous Limited Use Coverall**

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**Kosto Hi-Viz FR Jacket with Detachable Hood and Arc Flash Protection**

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**Kosto Hi-Viz Polyester-Cotton Twill Coverall with Pockets**

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# Protective Clothing

*FR coveralls and general-purpose coveralls*



**Kosto Dazzle Arc Flash & Welding FR Coverall with Zippered Leg**

SPI Part Number: VCKF10

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**Kosto 100% Cotton FR and Arc Flash Work Coverall**

SPI Part Number: VCKF01

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**Kosto Reflective Stripes Polyester Cotton Twill Coverall with Leg Zippers**

SPI Part Number: VCK253

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# Protective Clothing

*Waterproof and FR clothing*



## Kosto Hi-Viz Flame Resistant and ArcFlash Rain Coat

SPI Part Number: VMKF60

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## Kosto Dazzle Hi-Viz, Flame Resistant and Arc Flash Rain Pants

SPI Part Number: VPKF60

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# Protective Clothing

*Cold-weather clothing*



**Kosto Hi-Viz Quilted Lined Coverall**

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**Kosto Hi-Viz Quilted Thinsulate™ Cotton Duck Coverall –30 °C**

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**Kosto Xtrem Winter Coat with High Visibiliy CSA Certified**

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**Kosto Winter Bib Overalls for Extreme Cold**

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**Kosto Xtrem Endura Winter Parka Hi-Viz Certified CSA**

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**Kosto Xtrem Waterproof Insulated Winter Pants**

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# Hand Protection

## Leather gloves



### Kosto Full-Grain Leather Work Gloves with Cotton Back

SPI Part Number: MGG001

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### Kosto Sheepskin Leather Driver Gloves

SPI Part Number: MGG044

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### Kosto Full Grain Leather Driver Style Work Gloves with Reinforced Fingertips

SPI Part Number: MKG009

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### Kosto Full Grain Leather Driver Style Work Gloves

SPI Part Number: MGG009

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# Hand Protection

*Cut-resistant coated gloves*



**Kosto Polyurethane  
Coated Abrasion and Cut  
Resistant Work Gloves**

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**Kosto Polyurethane  
Coated High Density  
Polyethylene Cut-  
Resistant Work Gloves**

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**Kosto Foam Nitrile  
Coated High Density  
Polyethylene Cut-  
Resistant Work Gloves**

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**Kosto A9 Cut  
Resistant Safety  
Gloves**

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**Kosto PU Coated High  
Density Polyethylene  
Cut-Resistant A4 Work  
Gloves**

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**Kosto A6 Cut  
Resistant Gloves  
with Nitrile Foam  
Coated Palm**

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# Hand Protection

## Chemical-resistant gloves



**Kosto Chemical and Impact Resistant Work Gloves**

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**Kosto PVC-NBR Chemical Resistant Gloves**

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**Kosto PVC-NBR A6 Cut Resistant Chemical Gloves**

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**Kosto Chemical-Resistant 14" PVC Coated Work Gloves**

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**Kosto Chemical-Resistant PVC Coated Work Gloves**

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**Kosto Waterproof and Chemical-Resistant Insulated in PVC and Nitrile Fully Coated Work Gloves**

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# Hand Protection



**Kosto Nitrile Coated  
Polyester Work Gloves**

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**Kosto Touchscreen-  
Compatible and  
Abrasion-Resistant High  
Dexterity Gloves**

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**Kosto Goatskin Leather  
with High Visibility  
Breathable Polyester  
Mechanic Work Gloves**

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**Kosto Full-Grain Leather  
Winter Work Gloves**

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**Kosto Goatskin Arc  
Flash and A5 Cut-  
Resistant Driver Gloves  
with Kevlar®**

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**Kosto Arc Flash Kevlar®  
Lined Goatskin Work  
Gloves with 5" Cuff**

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# Vendor-Managed Inventory

Proven approach to simplify inventory management and order fulfillment.

We offer a variety of systems to automate your inventory management process:

- > Vending machines
- > Containers
- > RFID portal
- > Lockers
- > Carousels

## The benefits



The right PPE available 24/7



Increased productivity



Inventory control and usage visibility



# Eye Protection



## Kosto Freedom Series Safety Glasses

SPI Part Number: YLU07

**Available lens tints:** Amber, Blue, Clear, Espresso, Indoor/Outdoor Mirror, Mirror blue, Mirror gold, Mirror gray, Orange, Smoke

**Lens treatment:** Optional anti-fog

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## Kosto Essential Series Safety Glasses

SPI Part Number: YLK25

**Available lens tints:** Clear, Grey

**Frame color:** Orange

**Lens treatment:** K-MAX anti-fog

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## Kosto K Series Lightweight Adjustable Temple Safety Glasses

SPI Part Number: YLU075

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## Eye protection



### Kosto Safety Glasses Wave Series

SPI Part Number: YLK087

**Available lens tints:** Clear, Smoke

**Frame color:** Black

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### Kosto Kloud Safety Glasses with K-MAX antifog treatment

SPI Part Number: YLK288

**Available lens tints:** Clear, Grey

**Frame color:** Grey

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### Kosto Wall-Mounted Distributor of Lens Cleaning Wipes, 100/Box

SPI Part Number: YNK002

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# Safety Equipment Rentals

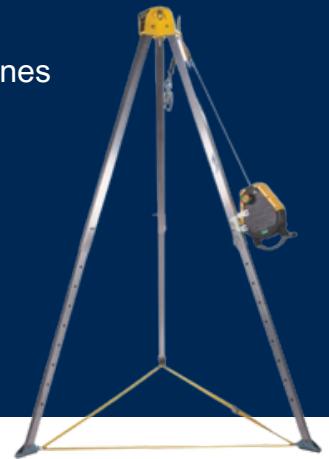
The right items when you need them

Our rental service is the perfect solution for your punctual needs, to fill a gap when demand increases or to reduce downtime when equipment breaks down.

- Rentals can be made on the day of or can be planned and organized according to your needs.
- Short and long term: (1 day, 1 week, 1 month, and more)

We offer several specialized health and safety products for rental:

- Confined Space and Fall Protection: tripods, davit systems, and lifelines
- Gas Detection: portable gas detectors
- Respiratory Protection: supplied-air and self-contained breathing apparatus (SAR, SCBA)
- Complementary Equipment: ventilators, cascade regulators



[Short-term need? Rent it instead](#)

## Benefits of renting with SPI



Allows you to add to your current equipment in the event of a temporary increase in demand



Avoids purchase and maintenance costs



Avoids delays while you wait for the repair of your equipment



## Lamps



### SWS Magnetic-Mount Low-Profile LED Beacon

SPI Part Number: CY-23106

Manufacturer Part Number: 23106

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### Kosto Miner's Light with Cord

SPI Part Number: ALK300

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### Kosto Lithium-Powered Miner's Cap Light with Emergency LEDs

SPI Part Number: ALK200

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# Lamps



**Kosto LED Headlamp  
with 4 Light Modes**

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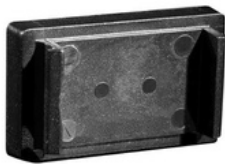
**Kosto Rechargeable LED  
Flashlight**

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**Kosto Replacement 70°  
Bracket for Miner's  
Headlamp (ALK200)**

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**Guardian™ Dual Function  
LED Signal and Safety  
Light with Velcro Strap**

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**Guardian™ Dual-Mode  
Waterproof LED Marker  
Light with Mounts**

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**Energizer Vision HD+  
350 Lumen Headlamp**

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## Foot Protection



**Viking® Chemical Resistant Mining Boots with Metatarsal Protection**

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**Cofra Thermic PU Insulated Work Boots with Internal Metatarsal Protection**

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**Surewerx K1 Mid-Sole Original Profile Centered Ice Cleats**

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**Duray Robuste Thermal Wool Socks**

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**Surewerx K1 Mid-Sole Low Profile Centered Ice Cleats**

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# Foot Protection



**Kosto Thermal Liners for  
Waterproof Work Boots**

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**Non-Slip Outsole With  
Cleats Kosto K-Grip**

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**Kosto AirMet Metal-Free  
Work Boots**

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**Kosto Cedrik Tek Leather  
Metal-Free Work Boots**

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**Kosto Falkon Metal-Free  
External Met Guard  
Boots with Insulation**

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**Kosto Tufftech Safety  
Boots with Met Guard**

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## Gas Detection - IO4

### Discover the Future of Workplace Safety with the MSA Connected Platform

This integrated solution is built around the ALTAIR io™ 4 gas detector, equipped with built-in LTE connectivity. It enables real-time monitoring of your teams without the need for complex IT setup.

SPI Health and Safety is proud to be the first MSA-accredited provider in Canada to offer this turnkey solution—making safety management simpler while enhancing compliance in the field.

#### Benefits:

- **Instant Deployment:** No setup required, automatic connectivity.
- **Enhanced Safety:** Live visibility of your workers in the field.
- **Simplified Compliance:** Centralized data for easier audits.
- **Long-Term Rental:** SPI offers the solution through a convenient rental program and takes care of maintenance and updates.



### Automatic Connectivity



### Over-the-Air Updates



### Automatic Bump and Calibration



## Respiratory Protection

Self-contained breathing apparatuses (SCBAs) are essential for ensuring the safety of workers exposed to hazardous or contaminated atmospheres. These devices are designed to provide a reliable supply of breathable air in the most critical situations.

We offer a wide range of models suited to various industries and applications, including confined spaces and industrial environments.

**Please note:**

Due to the large number of possible configurations, specific details are not listed in this document.



**👉 Need a device suited to your reality?**

Talk to your SPI representative. They'll guide you toward the equipment best suited to your needs and recommend a solution that meets current safety standards.

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## Respiratory Protection



### 3M™ Versaflo™ TR-600-ECK Easy Clean Powered Air Purifying Respirator Kit

SPI Part Number: RRE024

Manufacturer Part Number: 7100035754

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### 3M™ Versaflo TR-602N Powered Air Purifying Respirator Unit

SPI Part Number: RRE025

Manufacturer Part Number: 7100035756

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### 3M™ Belt-Mounted Powered Air Purifying Respirator Unit

SPI Part Number: RSO100

Manufacturer Part Number: 7000126091

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# Respiratory Protection



## Powerflow 3M™ Face-Mounted Powered Air Purifying Respirator

SPI Part Number: RTR005

Manufacturer Part Number: 6900PF

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## 3M™ Versaflo TR-300N+ HIK, Heavy Industry Powered Air Purifying Respirator Kit

SPI Part Number: RTR045

Manufacturer Part Number: 7100153815

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## 3M™ Versaflo TR-600-HIK Heavy Industry PAPR Kit with M-307 Helmet

SPI Part Number: RTR048

Manufacturer Part Number: 7100035755

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# Respiratory Protection



## 3M™ Belt-Mounted Powered Air Kit

SPI Part Number: RTR053

Manufacturer Part Number: 7100127540

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## 3M™ Versaflo TR-800-HIK Heavy Industry PAPR Kit with Helmet

SPI Part Number: RTR064

Manufacturer Part Number: 7100150927

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## 3M™ Versaflo Belt-Mounted PAPR TR-612N for Gases and Vapors

SPI Part Number: RTR072

Manufacturer Part Number: 7100176754

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## Respiratory Protection



### 3M™ 37-1101-30ISW-CA Adflo PAPR HE System with 3M™ Speedglas Welding Helmet

SPI Part Number: YMT021

Manufacturer Part Number: 7100260616

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## Additional Resources

### Articles

- [5 Benefits of a PAPR System](#)
- [How to Properly Adjust a Half Mask](#)
- [The 3M Versaflo Series: The Powered Air Purifying Respirator You Need](#)
- [Meet the 3M Versaflo TR-300 Powered Air Purifying Respirator](#)

[and more →](#)

# Respiratory Protection



**Kosto N95 Mask Without Exhalation Valve**

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**Kosto N95 Mask with Valve for Dust and Particles**

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**Kosto Alcohol-Free Individually Wrapped Respirator Cleaning Wipes**

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**3M™ Industrial Half-Mask Respirator with Quick Latch & Cool Flow™ Valve**

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**3M™ 6000 Series Half-Mask Respirator for Particles & Vapors**

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**3M™ Secure Click Reusable Half-Mask Respirator with Speaking Diaphragm**

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# Respiratory Protection



**3M™ 6000 Series Full Facepiece Reusable Respirator with Cool Flow™ Valve**

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**3M™ P95 Disposable Particulate Respirator with Exhalation Valve**

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**3M™ Versaflo™ Replacement Forehead Seal**

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**3M™ Versaflo Premium Visor 5/box**

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**3M™ Versaflo™ Flame Resistant Faceseal 5/box**

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**3M™ Versaflo™ Mining Lamp Bracket Kit for Mining Helmets**

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# Respiratory Protection



**3M™ Versaflo™ Easy Clean Backpack**

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**3M™ Speedglas™ Welding Backpack for Adflo™ PAPR**

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**3M™ Disposable Respirator Cleaning Wipe - 100/box**

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**3M™ Speedglas™ Auto-Darkening Filter 9100X – Shade 5 & 8-13**

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**3M™ Versaflo Sweat Pad Replacement for M-Series Helmets – 10/box**

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**3M™ Versaflo™ Rechargeable Battery for TR-600 PAPR**

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# Respiratory Protection



## 3M™ Versaflo M-973N Protective Screen Against Radiant Heat

SPI Part Number: RAD059

Manufacturer Part Number: 7100154129

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## 3M™ Versaflo™ Hard Hat Assembly, Premium Visor and Faceseal M-307

SPI Part Number: RCH005

Manufacturer Part Number: 7000052874

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## 3M™ Speedglas™ 9100MP Welding Helmet for Adflo™ PAPR System

SPI Part Number: RCH009

Manufacturer Part Number: 7000128221

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# Respiratory Protection



## **3M™ Versaflo™ Respiratory M-Series Helmet Assembly with Flame Resistant Shroud and Speedglas™ Welding Shield**

SPI Part Number: RMP067

Manufacturer Part Number: 7100168651

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## **3M™ Versaflo™ M-407 Respiratory Helmet with Flame-Resistant Shroud**

SPI Part Number: RPR071

Manufacturer Part Number: 7000002395

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## **3M™ Versaflo™ Radiant Heat Cover**

SPI Part Number: RPR125

Manufacturer Part Number: 7100154130

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# Respiratory Protection



**3M™ Adflo™  
Replacement Lithium  
Battery for PAPR**

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**3M™ Versaflo™ Belt-  
Mounted Battery Adapter**

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**3M™ Versaflo™ High  
Durability Belt**

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**3M**

Authorized Distributor

# 5 STEPS

## *for Reliable and Safe Measurements in Confined Spaces*

### 1. DETECTOR INSPECTION STEPS

---

- **VISUAL INSPECTION**
  - CHECK THE OVERALL CONDITION OF THE DETECTOR.
- **FILTER CHECK**
  - IF THE FILTERS APPEAR CLOGGED, REPLACE THEM.
- **DEVICE START-UP: CHECK THE FOLLOWING ITEMS:**
  - DATE AND TIME
  - ALARM THRESHOLDS (REGULATORY LIMITS IN QUEBEC AS OF MAY 21, 2025):
    - O<sub>2</sub>: MIN. 19.5%, MAX. 23%
    - H<sub>2</sub>S: 8 PPM
    - CO: 35 PPM
    - LEL: 5%
- NEXT CALIBRATION (EVERY 30 TO 180 DAYS, DEPENDING ON THE MANUFACTURER)
- **BUMP TEST (DRIFT TEST):** PERFORM BEFORE EACH USE TO VALIDATE MEASUREMENT ACCURACY.
- **ZEROING:** PERFORM IN A CLEAN ENVIRONMENT TO ENSURE FUTURE READINGS ARE RELIABLE.
- **PEAK VALUES:** REVIEW THE HIGHEST RECORDED VALUES SINCE THE LAST RESET AND CLEAR THEM BEFORE NEW SAMPLING.

### 2. RECOMMENDED TEMPERATURE RANGES

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- ▶ **DURING USE:**
  - -20 °C TO +50 °C
- ▶ **IN STORAGE:**
  - 0 °C TO +25 °C

# 5 STEPS

## *for Reliable and Safe Measurements in Confined Spaces*

### 3. SAMPLING: BEST PRACTICES

---

TO ASSESS GASES OF DIFFERENT DENSITIES, SAMPLE AT VARIOUS HEIGHTS (EVERY 3 TO 5 FEET) AND ALLOW THE DETECTOR TIME TO STABILIZE ITS READINGS (30 TO 90 S DEPENDING ON THE MANUFACTURER).

▶ **WITH A PUMP-EQUIPPED DETECTOR (INTEGRATED OR ADDED)**

- USE AN ELECTRIC PUMP WITH A PROBE OR TUBE OF APPROPRIATE LENGTH FOR THE SPACE.
- ALLOW SUFFICIENT TIME FOR SAMPLING (ACCOUNT FOR T90 RESPONSE TIME AND AIR TRAVEL THROUGH THE TUBE — APPROXIMATELY 3 SECONDS PER FOOT OF TUBING).

**HORIZONTAL CONFINED SPACES**

- INSERT A POLE AND MEASURE FROM LEFT TO RIGHT, ACROSS THE ENTIRE WIDTH.
- ACCOUNT FOR THE CHIMNEY EFFECT (AIR CURRENTS CAN HIDE HAZARDOUS AREAS).
- MEASURE FROM TOP TO BOTTOM TO COVER ALL LAYERS.

**VERTICAL CONFINED SPACES**

- INSERT A TUBE AND MEASURE PROGRESSIVELY FROM TOP TO BOTTOM.
- DO NOT ASPIRATE LIQUIDS.
- TAKE GAS DENSITY INTO ACCOUNT.

▶ **WITH A DIFFUSION DETECTOR (WITHOUT PUMP)**

- ATTACH IT TO A POLE (HORIZONTAL) OR A ROPE (VERTICAL).
- CHECK PEAK VALUES AFTER SAMPLING AND RESET THEM BEFORE THE NEXT USE.

 **TIP:**

ALWAYS INSPECT AND MAINTAIN YOUR DETECTOR BEFORE AND AFTER EACH USE TO ENSURE YOUR SAFETY AND THAT OF YOUR TEAM.

# 5 STEPS

## *for Reliable and Safe Measurements in Confined Spaces*

### 4. READING INTERPRETATION

---

A HEALTHY AMBIENT ATMOSPHERE CONTAINS:

- 20.9% O<sub>2</sub>
- 78% NITROGEN
- 1% RARE GASES

A 0.1% DROP IN O<sub>2</sub> CAN INDICATE THE PRESENCE OF 5,000 PPM OF A CONTAMINANT.

**FOR EXAMPLE:**

A READING OF 20.1% O<sub>2</sub> MAY REVEAL UP TO 40,000 PPM OF AN UNIDENTIFIED GAS.

➔ PROPER INTERPRETATION OF THE DATA HELPS DETECT HARMFUL GASES AND IMPLEMENT APPROPRIATE PREVENTIVE MEASURES.

### 5. CLEANING

---

**TO ENSURE THE DETECTOR'S LONGEVITY AND ACCURACY:**

- NEVER USE SOLVENTS OR DETERGENTS.
- WIPE THE EXTERIOR WITH A CLEAN, SOFT CLOTH.
- MAKE SURE THE DIFFUSION MEMBRANE IS CLEAN AND DEBRIS-FREE (USE A SOFT BRUSH IF NEEDED).
- ENSURE THE PUMP INLET IS FREE OF DEBRIS.

# Head Protection



## **Kosto K-PRO Type 1 Hard Hat with Ratchet Suspension**

SPI Part Number: TCK10

*Different Colors Available*

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## **MSA V-Gard Hat-Style Safety Helmet with Ratchet Suspension Fas-Trac III**

SPI Part Number: TCR01

Manufacturer Part Number: 475366

*Different Colors Available*

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## **MSA V-Gard Safety Hard Hat with Staz-On Suspension**

SPI Part Number: TCN20

Manufacturer Part Number: 10024832

*Different Colors Available*

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# Head Protection



**Kosto Acrylic Hard Hat Liner**

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**Egli's Head Honcho™  
Sheepskin Hard Hat Liner**

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**Kosto Quilted FR Cotton  
Helmet Liner**

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**Kosto 3M™ Scotchlite Hi-  
Viz Tape for Helmets**

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**Kosto Fire Resistant  
Cotton Hard Hat Winter  
Liner**

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**Kosto Stretchable Knit  
Neck Warmer**

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## Head Protection



**Kosto FR and ArcFlash  
Balaclava**

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**Kosto Acrylic Helmet  
Liner**

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**Kosto Cold-Weather  
Work Beanie**

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**Kosto Fire Retardant and  
ArcFlash Cuffed Toque**

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**Kosto Acrylic Toque with  
Thinsulate™**

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# Optimize your shutdown planning with our Technical Services

**A well-planned shutdown starts with the right partners.**

Our technical services offer strategic support that directly impacts the success of your scheduled shutdown:

- ▶ **Structured planning:** We help you define key objectives: maintenance, equipment replacement, regulatory inspections, compliance, and improvements.
- ▶ **Schedule management:** Set your shutdown dates with precision and book in advance to secure the availability of our specialized teams.
- ▶ **Stakeholder coordination:** We streamline the identification and mobilization of all parties involved: internal teams, subcontractors, and suppliers.

[LEARN MORE](#)

## Technical Services

**In addition to strategic shutdown planning, our technical services help keep your operations safe and compliant:**

- Short-term rentals to temporarily increase your fleet and maintain operations without interruption.
- Certification of your confined space and fall protection equipment, including:
  - Revalidation of self-retracting lifelines
  - Inspection of your protective equipment (PPE)
  - Fan inspections
  - Breathing air: air analysis, filter panel maintenance
  - Gas detection

**Trust Our Certified Technicians to Ensure:**

- Maintenance of your equipment
- Inspection
- Standard-compliant certification

On-site, at your company or in our branch – our experts operate in accordance with manufacturer standards and current regulations, ensuring the reliability and compliance of your equipment.



## Truck Safety and Maintenance



**Kosto Emergency Spill Kit for Petroleum Products**

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**Kosto High-Visibility Barricade Tape for Hazards**

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**Kosto High-Visibility Barricade Tape for Hazards**

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**Dendrotik Fluorescent Forestry Tape for Winter – Assorted Colors**

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**Ultra-Rugged Powerflare Warning Light – Yellow/Red**

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# Truck Safety and Maintenance



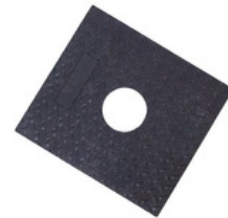
**Cortina DW Series Heavy-Duty Traffic Cone**

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**Kosto High-Visibility Traffic Post with Reflective Bands**

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**Kosto Heavy-Duty Rubber Base for Delineators**

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**Kosto 18" Orange Safety Cone with 4" Reflective Band**

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**Kosto 28" PVC Traffic Cone with Reflective Tape**

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**Kosto Compact PVC Safety Cone**

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# Engineering Services

## Our turnkey safety service includes:

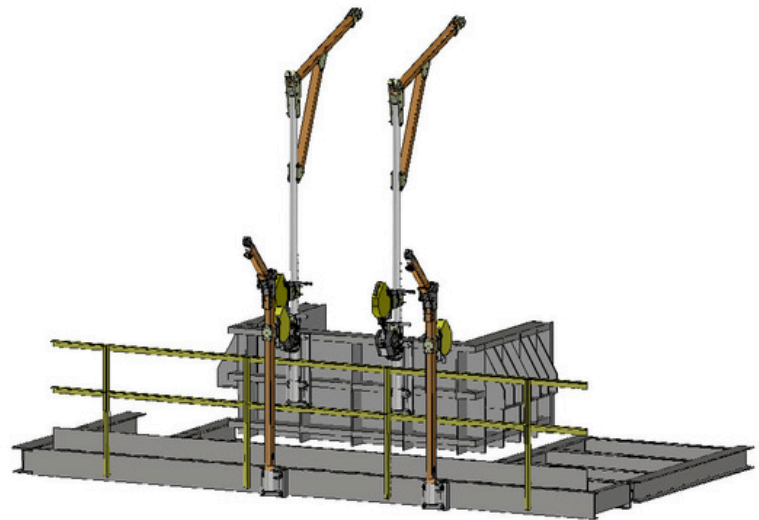
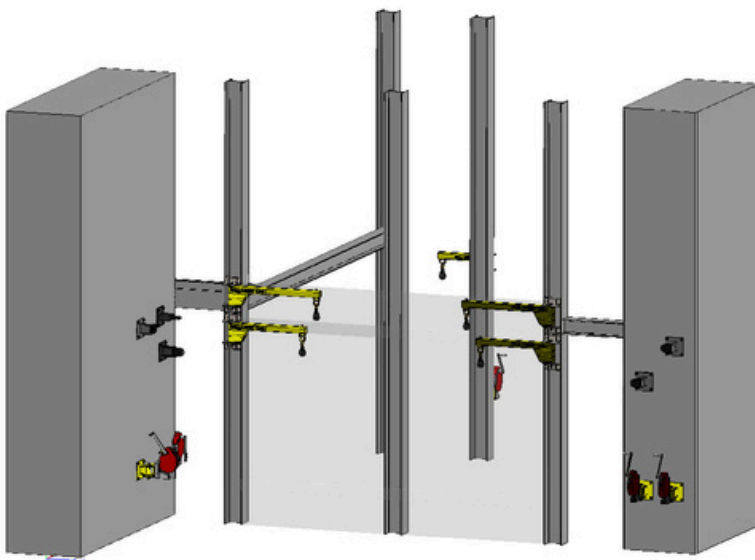
- Design (engineering)
- Installation
- Inspection
- Compliance upgrades for existing systems

## Types of systems supported:

- Permanent davit bases (wall-mounted, floor-mounted, recessed, or custom)
- Permanent or temporary guardrails, self-closing gates
- Anchors for fall arrest or travel restraint
- Retrieval systems (bars, poles, etc.)
- Custom design of any other system

## *Did you know?*

The installation of retrieval systems, such as davit bases, must be reviewed by an engineer. This requirement ensures compliance with current standards and regulations, and adherence to the manufacturer's recommendations—ultimately guaranteeing worker safety.





## Fall Protection



### Guardian Fall Adjustable Positioning Lanyard

SPI Part Number: LA-NL01PWN314-24A

Manufacturer Part Number: NL01PWN314-24A

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### Guardian Positioning and Restraint Non-Shock Absorbing Safety Lanyard

SPI Part Number: LA-NL01PWN314

Manufacturer Part Number: NL01PWN314

*Different Lengths Available*

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### Guardian Positioning and Restraint Polyester Lanyard With Snap Hooks

SPI Part Number: CCO007

Manufacturer Part Number: NL01PW01

*Different Lengths Available*

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# Fall Protection



## MSA V-Shock Edge Leading Edge Self Retracting Lanyard

SPI Part Number: CDI20

Manufacturer Part Number: VSLEG-101-NE-C

*Different Lengths Available*

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## MSA V-Gard Safety Hard Hat with Staz-On Suspension

SPI Part Number: CTR028

Manufacturer Part Number: 10158180

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## Honeywell Miller TurboLite™+ Personal Fall Limiter

SPI Part Number: CDI195

Manufacturer Part Number: MTL-OHW1-01/6FT

*Different Lengths Available*

[GET YOURS](#)



## Fall Protection



### 3M™ Protecta® Comfort Vest-Style Safety Harness

SPI Part Number: CHA245

Manufacturer Part Number: 7100232055

[GET YOURS](#)



### 3M™ DBI-SALA® Hard Hat Tether 10/pack

SPI Part Number: CAN061

Manufacturer Part Number: 1500178

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## Fall Protection

# Additional Resources

### Articles

- [The Real Danger of Dropped Objects](#)
- [Fall Protection Equipment: Essential Maintenance and Care](#)
- [All the Answers About the End of Life of Your Safety Harness](#)

[and more →](#)

# Safety Consulting

We offer a personalized, tailor-made service with a 360° solution to meet all your needs across Canada. Our goal is to help you identify and control the following major risks:



**Confined Space**



**Work at height**



**Lockout Tagout**



**Respiratory protection**

Our offer is comprehensive: we support you throughout your OHS process, offering analysis, advice, training and equipment. SPI is also committed to this promise: expertise, commitment and tailor-made solutions.

## **Program**

Writing  
Revision  
Recommendations

## **Equipment**

Equipment sales  
Inspections

## **Audits**

Documentation  
Program application  
Technical installations

## **Risk identification**

Inventories  
Risk analysis  
Procedures writing  
Document management

## **Training**

Revision  
Broadcast  
Theory and practice





### Confined Space Entry and Stand-by Attendant/Supervisor

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### Confined Space Entry & Rescue

[LEARN MORE](#)



### Lockout/Tagout Training Courses

[LEARN MORE](#)



### Carry Out Qualitative Fit Tests

[LEARN MORE](#)



**Train your teams, wherever they are.**

Access online OHS training at your own pace →



# Hearing Protection



**3M™ E-A-R Classic  
Uncorded Foam Earplugs**

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**3M™ E-A-R™ Moisture-Resistant Classic™ Foam Earplugs**

[GET YOURS](#)



**3M™ Model 1100  
Dielectric and Roll-Down  
Foam Earplugs**

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**3M™ No-Touch Uncorded  
Foam Earplugs**

[GET YOURS](#)



**3M™ E-A-R™ Pistonz  
Earplug**

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**3M™ Peltor™ EEP-100  
Electronic Earplugs**

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# Hearing Protection



**3M™ PELTOR™  
Dielectric Full Brim  
Helmet-Mounted  
Earmuffs**

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**3M™ PELTOR™ CH-3  
Listen-Only Hard Hat  
Mounted Headset**

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**3M™ PELTOR™ CH-3  
Listen-Only Work  
Headband Earmuffs**

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**3M™ PELTOR™ Noise-  
Cancelling Boom Mic for  
PELTOR™**

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**SoundControl SH  
Earmuff for Full Brim Hat**

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**3M™ PELTOR™  
Dielectric Helmet-  
Attached Earmuffs**

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# Hearing Protection



## **3M™ PELTOR™ PIC-100 Wireless In-Ear Hearing Protection Headset**

SPI Part Number: OCA012

Manufacturer Part Number: 7100262767

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## **3M™ Peltor™ WS LiteCom PRO III Two-Way Radio Headset for Hard Hat Mount**

SPI Part Number: OCR016

Manufacturer Part Number: 7100099586

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## **3M™ Peltor™ HT52B-112 CH-3 Listen Only Neckband Earmuffs**

SPI Part Number: OCR012

Manufacturer Part Number: 7100203298

[GET YOURS](#)





# Wear time: Get the most out of your protective equipment

PPE can only do its job when it is worn properly, 100% of the time.

## What does it mean?

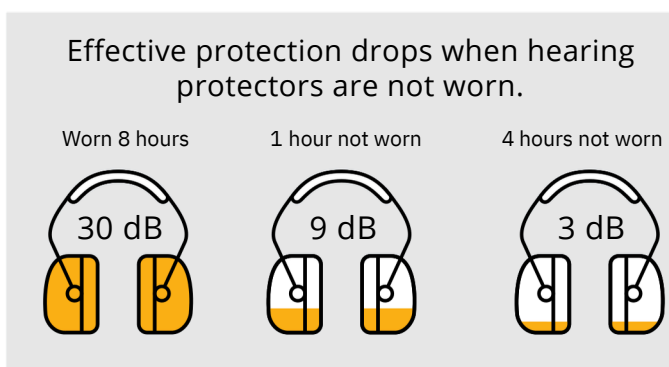
Wear time is the percentage of time a worker actually wears their required PPE vs. the amount of time they should wear it to achieve the Assigned Protection Factor (APF). Used to help select respiratory PPE, APF assumes that workers use their required PPE properly 100% of the time they may be exposed while on the job. Effective Protection Factor (EPF) is the actual protection rate factor according to the wear time for each worker.

## Impact on respiratory protection EPF

Respirator Type	APF	Percent of Time Respirator Worn & Associated EPF		
		100%	95%	80%
 Half-face respirator	10	10	7	3.6
 Full-face respirator	50	50	14.5	4.6
 Powered & Supplied Air	1000	1000	20	5
 SCBA	10,000	10,000	20	5

Colton, Craig. "Respiratory Protection." *Fundamentals of Industrial Hygiene*. Ed. Barbara Plog. Itasca: National Safety Council, 2012. 678-679.1

## Impact on hearing protection



Even when noise seems to be at a reasonable level, noise above 85 dBA can still lead to long-term damage. Noise-induced hearing loss is caused by the damage and eventual death of sensory cells in your ears, called hair cells. Unlike some other cells, human ear hair cells never grow back.<sup>1</sup>

<sup>1</sup> Based on 95 dBA TWA exposure and using NIOSH Recommended Exposure Limit of 85 dBA and 3 dB exchange rate.



## Potential reasons why workers may not wear their PPE

- ▷ **Discomfort:** heat, humidity, lack of breathability
- ▷ **Performance:** fogging eyewear, inability to communicate clearly
- ▷ **Compatibility:** eye protection worn under earmuffs may impact hearing protection
- ▷ **Communication:** workers may remove PPE to communicate

Potential result: **lower wear time** and negative impact on worker health and safety.



## The potential impact of low wear time

- ∩ Increased instances of occupational illness, e.g. silicosis/pneumoconiosis
- ∩ Increased instances of noise-induced hearing loss
- ∩ Increase in workplace accident rates
- ∩ Increase in Lifetime Injury Frequency Rate (LTIFR)
- ∩ Increase in worker fatalities
- ∩ Negative impact on welfare of workers and their communities
- ∩ Negative impact on business reputation
- ∩ Negative impact on Total Cost of Operation (TCO)



What can improved wear time do for you?

- ⌘ Maximize Effective Protection Factor (EPF)
- ⌘ Reduce time of exposure
- ⌘ Reduce probability of accidents and occupational diseases
- ⌘ Improve Lifetime Injury Frequency Rate (LTIFR)
- ⌘ Improve health and social welfare of mining communities



Three keys to improving wear time

- ⌘ **Fit:** select PPE optimized for wearability, validate with fit testing
- ⌘ **Communication:** make it easier to speak and hear without removing PPE
- ⌘ **Compatibility:** choose integrated and compatible PPE designed to be worn together



## Additional Resources

### Blogs

- [Confined Space](#)
- [Respiratory Protection](#)
- [Eye and Head Protection](#)
- [Hearing Protection](#)
- [Lockout / Tagout](#)
- [Foot Protection](#)
- [Our Private Label Kosto](#)

[and more →](#)