

Fall protection saves trainee

Firefighters train every day, duplicating dangerous situations that they may encounter on the job.

[more on page 7 ▶](#)

**Tough environments no problem for Orion® plus 5-Gas IR Detector**

MSA's new Orion plus IR Detector, one of the handiest five-gas detectors you can buy, has a new range of IR sensors.

Innovative infrared technology finds carbon dioxide or hydrocarbons, and with MSA's time-proven reliability, you simply choose your IR sensor, add two toxic, one oxygen, and an LEL sensor.

The Orion plus IR performs in the toughest environments.

With simple one-hand operation, its integrated data-logging and large graphical display make it a simple, easy-to-use portable instrument.

**Evolution® 5200 TIC does its job**

Entrapment. The last word a firefighter wants to hear. Someone is trapped inside a smoky, burning structure and needs to be found and rescued.

[more on page 3 ▶](#)

**New choices in head, eye, & face protection**

Support your favorite college football team by wearing one of our new college football hard hats.

Currently, MSA has seven teams to choose from: the Florida Gators, Georgia Bulldogs, Louisiana State Tigers, Michigan Wolverines, Alabama Crimson Tide, North Carolina Tarheels, and Miami Hurricanes.

[more on page 2 ▶](#)



MSA Paraclete Releasable Assault Vest saves injured contractor

In May 2006, tactical commander Chris Joyner, a private security contractor assigned to the U.S. Embassy in Baghdad, was riding in an armored vehicle when a roadside bomb (IED—Improvised Explosive Device) nearly ended his life. The powerful blast almost rolled the five-ton vehicle.

The explosion broke his cheekbones and dislocated his jaw. A spray of molten copper and shrapnel destroyed his right eye and lacerated his face and body. Although dazed and disoriented, he never lost consciousness. When a medic tried to cut open his MSA Paraclete RAV (Releasable Assault Vest) Joyner stopped him.

"Whoa, whoa, whoa," he cried, "just pull the cord!"

Cutting the tough, 1000-denier nylon could take 10 minutes—time Joyner didn't have. The medic

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Chris Joyner, pictured here with his wife, holds the vest that saved his life.



Defender® Visor: a new tradition

Think outside your fire helmet. Think about easy pull-down eye protection.

MSA's new Defender Visor is easy to pull down when you need it; then push it up into your helmet for storage.

MSA's patent-pending integrated design is NFPA-compliant. You can quickly retrofit this visor to your Cairns® 1010 and 1044 Helmets or choose it as an option on a new Cairns Helmet. The easy-to-replace lens comes in four colors. 

**MSA's Cairns Helmets:
Tradition and quality since 1836.**

MSA expands Body Armor line by acquiring Paraclete

On September 7, 2006, MSA announced the acquisition of Paraclete Armor and Equipment, Inc., of St. Pauls, N.C., a rapidly growing innovator and developer of advanced ballistic body armor used by military personnel, including Special Forces units of the U.S. military.

Paraclete Armor, which employs approximately 200 people and had annual revenues of \$16 million in 2005, will continue to operate from its North Carolina base. A premium name in body armor, Paraclete has excelled in developing technological-ly advanced equipment that meets the demanding needs of forward-force members of the military.

This \$30 million buy immediately enhances MSA's existing line of ballistic body armor and puts us in a better position to meet the needs of our military and law enforcement customers.

Paraclete Armor and Equipment, Inc., whose products have been, as its motto states, "Proven Under Fire" in Afghanistan and Iraq, leads the industry in

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24/7 Monitoring with MSA's VaporLab® 700 Gas Analyzer

MSA's innovative VaporLab 700 Gas Analyzer performs process and toxic gas monitoring in industrial environments. Featuring remote sampling capabilities, this 19-inch rack-mounted analyzer is designed for continuous 24-hour operation.



This versatile instrument uses advanced solid-state technology to detect BTEX at ppb levels, providing OSHA compliance reporting and alarm reports.

Gas chromatography detection enables select identification of a target compound in a complex environmental mixture. This allows the unit to selectively identify a target compound.

The VaporLab 700 generates its own carrier gas by scrubbing ambient air, thereby eliminating the requirement for expensive support gas. 🧑‍🏭

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MSA Paraclete Releasable Assault Vest saves injured contractor



Chris Joyner's damaged vehicle

grabbed the emergency rip cord and pulled. In seconds, the fully loaded vest separated into five components and was out of the way.


"It saved my life," Joyner said of the RAV's patented cutaway system, "but at the time I was thinking, it's a new vest. I don't want it ruined!"

Chris Joyner had personally chosen to wear an MSA Paraclete RAV instead of a more conventional-style ballistic vest worn by his buddies. Perhaps Joyner had actually foreseen the complications that might be caused if he were injured.

This survivor was told that the 10 minutes saved by the quick release of his MSA Paraclete vest were truly the difference between his life and death. In September, he visited the MSA Paraclete plant in North Carolina to thank those who make these vests. 🧑‍🏭


New choices in head, eye, & face protection

Head Protection

MSA's new **SmoothDome™ Slotted Cap** with special Fas-Trac® bright orange ratchet suspension is already making welders happy. This durable, lightweight polyethylene cap with smooth-crown silhouette meets ANSI Z89.1-2003, Class E. It comes in seven colors and accommodates the same accessories as MSA's popular V-Gard® Cap. 



Display your patriotism while you work with a new **Freedom Series™ Cap**. The new design "American Eagle" is a black cap with a large eagle displayed on the front with "United States of America" imprinted underneath and flowing U.S. flags on the sides.

Workers who need head protection while working in elevated temperatures will enjoy the new **Topgard® HTE Slotted Cap with Fas-Trac Suspension**. This Topgard HTE helmet is durable, lightweight Class E protection. It also meets NFPA 70E requirements. Limited resistance to top impact or penetration is retained through a wide range of temperatures. 

Eye and Face Protection



MSA's new **ARC Visor**, used with or without a chin guard, is a Level Two Arc Visor. Made of a propionate plastic/chemical alloy, the green visor meets NFPA 70E, ASTM F2178, and ANSI Z87.1-S for special-purpose lenses. Note: The ARC Visor, which measures 10" x 20" x .060", should not be used for welding exposures.



MSA's new line of polycarbonate thermal welding lenses are lightweight and offer better high-impact protection than glass. **Thermal plastic welding shields** protect workers' eyes from infrared burns, sparks, hot metal spatter, and chips often encountered in welding operations.

In response to customer requests, MSA now offers a new **metal foldback faceshield frame** made especially for Skullgard® Caps. This new frame tightly fits the hardhat and is also bent on the front edge, allowing the wearer to attach a filter plate. 🧑‍🏭



APFs & MUCs added to OSHA Respiratory Protection Standard

OSHA has finally incorporated new Assigned Protection Factors (APFs) and Maximum Use Concentrations (MUCs) into its Respiratory Protection Standard published January 8, 1998.

The standard now specifies a set of APFs for each class of respirator used to protect against overexposure to any substance regulated under 29 CFR 1910.1000.

APF numbers indicate the level of workplace respiratory protection that a respirator or class of respirators is expected to provide to employees when used as part of an effective respiratory protection program.

The standard also contains provisions necessary for a comprehensive respiratory protection program including selection and use of respirators, training, medical evaluation, and fit testing.

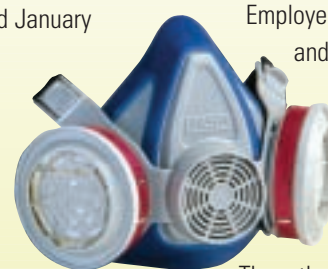
MUCs define the maximum gas or vapor concentration for which a given respirator can be used.

Employers must follow these new requirements and use APFs to select the appropriate type of respirator based upon the exposure limit of a contaminant and level of contaminant in the workplace. They do so by comparing the exposure level found in the workplace with the MUC.

Then, they generally multiply the respirator's APF by the contaminant's exposure limit.

If the workplace level of the contaminant is expected to exceed the respirator's MUC, the employer must choose a respirator with a higher APF.

This rule took effect Nov. 22, 2006. For more information, visit www.osha.gov 🧑‍🏭





Evolution® 5200 TIC does double duty in smoky structure fire

As Bethel Park (Pa.) firefighters approached the burning residence, they couldn't see through the blankets of thick black smoke. They knew from experience that the first piece of equipment they would need off the truck was their MSA Evolution 5200 Thermal Imaging Camera.

In today's firefighting world, use of thermal imagers is becoming common. "Our MSA TIC is basically our eyes when we can't see," Bethel Park firefighter Jeff Ferencic said.

Aiming the camera into the thick smoke, Fire Chief Bob Clark quickly found the homeowner, whose body heat transformed him into a glowing white figure on Clark's TIC screen.

"We fight a lot of fires, but it is not often we get into a situation where you really do have a victim trapped, and you have to retrieve that person," Clark said. "I pushed the door open, and he sort of stumbled toward me. I grabbed his arm and pulled him out."

The coughing homeowner was the only person home, sleeping when the fire broke out. He was transported to the hospital, in critical condition from smoke inhalation.

"If we hadn't had that technology, that much smoke would have killed him," Ferencic said.

However, the lucky homeowner wasn't the only person saved that day.

With the TIC, firefighters also detected that heat was rising from the basement up through the first floor. They quickly retreated.

"Had we advanced any farther, there's a good chance we would have gone through the floor," Clark said. 🧑‍🚒



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Evolution 5200 TIC does its job

Firefighters from the Milton, Ontario, Fire Department responded to a such a call on an early morning last August and found a house, garage, and two vehicles in flames. Persons on scene confirmed someone was still in the building.

While searching the kitchen, firefighters thought they heard someone calling from the basement. Smoke conditions were heavy. One firefighter could see everything and walk around freely, but his partner was forced to crawl.

"MSA's TIC is small enough that I had it clipped to my jacket as I hand-searched the first room," firefighter Steve Ellis said. "After that, the search went very quickly with the help of the camera. People commented on how little time it took for us to find the homeowner."

"We found him lying on a futon, covered almost completely with a blanket," Ellis said. "His form lit up the screen of our 5200 like a glow stick in a dark room."

The person was quickly transported to the hospital, and is expected to fully recover.

"Without the MSA Evolution 5200 TIC, the search of this residence would have taken a lot longer, and the results may have been different,"

Ellis said. "Like us, the camera did what it was supposed to do." 🧑‍🚒



Cairns® 1044 Helmet absorbs impact of utility pole

Perhaps one of the most inherent dangers in firefighting is building collapse. Firefighters perish each year while trying to save a valued business or home, when the floor literally disintegrates beneath them or the ceiling crashes down upon them.

The Greenfield Volunteer Fire Department in Ohio was called to a fully involved mobile home fire early in 2006. The firefighters quickly surrounded the structure, contained the fire, and began performing an exterior overhaul.

Incident commander Chief James Bartels noticed the structure was quickly becoming unstable and sounded the building-collapse alarm. But almost immediately, four firefighters became entangled as they retreated. Three narrowly escaped as the mobile home collapsed, striking and shearing a power utility pole. But one firefighter was struck in the head and back by the falling pole.

The firefighter was airlifted to the local trauma center, and luckily, sustained only minor to moderate injuries, thanks to his Cairns 1044 Helmet. Had he not been wearing his Cairns helmet, Chief Bartels said he might have been seriously injured or killed by the falling pole. 🧑‍🚒



Danger in confined spaces

Disaster in ditches

During the past few years, the Pittsburgh, Pa., area alone has seen several tragedies involving trench collapses, tragedies that could easily have been avoided (according to OSHA) if the workers had armed themselves for danger in confined spaces.

People just don't think, and they don't think "it will happen to them." That's one reason it is so important to practice safety, monitor your workspace, and follow OSHA's rules.



Incident 1:

A 30-year-old plumbing employee had been installing a new sewer line when one side of the five-foot trench collapsed. He was trapped up to his knees, and one shoulder was injured.

It took a trench rescue team from Pittsburgh Emergency Medical Services over 90 minutes to shore up the trench, before they could free the man.

OSHA's Pittsburgh office learned of the collapse from a television news report and dispatched an inspector immediately.

Federal safety and health regulations dictate that trenches five feet or deeper must be protected from cave-ins. A shallower trench requires the same protection if the soil is unstable.

Incident 2:

One man was killed and another injured when a seven-foot unsupported trench collapsed in Beaver County, Pa. They had been digging the trench for a sewer line.

The men were trapped approximately 4 feet apart in the 30-foot long trench. One was buried up to his shoulders, the other to his nose.

Rescue workers attempted to dig the men out with a backhoe, but, fearing further collapse, switched to hand shovels.

An investigator from Pittsburgh's OSHA office said the trench did not have any reinforcement as required by federal health and safety standards. 🧐

Confined space dangers can be handled when personal protection is part of your process. Shore up trenches. Provide for proper ventilation, and monitor hazards with the proper detection equipment. Keep respirators, fall protection, and other protection handy.

For more information, ask for MSA's newly revised Confined Space Primer.

DID YOU KNOW:

- A cube of soil measuring 1 foot on a side weighs about 100 pounds. A cubic yard of soil contains 27 of these, or 2,700 pounds—the weight of a mid-sized automobile. A trench wall collapse might contain 3 to 5 cubic yards of soil, weighing from 8,000 to 14,000 pounds.
- A person buried under only a few feet of soil would receive enough chest pressure to prevent his lungs from expanding, and would suffocate within about three minutes. Even if the person were rescued before suffocating, the heavy soil loads would probably cause serious internal injuries.
- A worker buried in earth as high as his diaphragm would not be able to dig himself out, and would probably die. And, if the face is even only partially covered, death is almost certain.
- Incidents like these happen across the United States and world daily.
- Confined spaces can be created before you know it!



The cost of confined concrete

One late December, a small construction crew poured a concrete floor, which was then enclosed in plastic to keep the snow and wind out, and the heat in. Heat came from propane-fired heaters and kerosene jet heaters with blowers. To maintain the warmer temperature, the crew had inadvertently created a confined space.

One worker entered the enclosed "plastic room" and started to float the concrete. But when his co-workers returned, they found their friend lying face down in the concrete.

Although he was rushed to the hospital, the man now suffers from a loss of involuntary motor functions (such as breathing), from exposure to too much CO and not enough oxygen.

You may follow similar practices repeatedly without incident, but before it's too late, protect yourself with gas detectors. They are not only a necessity, but also affordable and easy to use.

Connect-by-Cable Headsets offer another choice in hearing protection



MSA's new **Connect-by-Cable** two-way communication headsets provide comfortable hearing protection for high-noise environments.

Both Standard and Cutoff Connect-by-Cable headsets are available in either headband versions or helmet-mounted models. The headband versions have a padded headband with adjustable pressure. The headsets come hardwired with 3.5 mm cable adapter.

Standard Connect-by-Cable headsets can be connected to an MSA Push-To-Talk or lapel microphone, which is not noise-canceling.

Connect-by-Cable Cutoff headsets incorporate the latest electronics technology. These models reproduce and amplify sounds while automatically filtering out harmful

noise levels, thus allowing the wearer to hear warning sounds, alarms, and other important information.

They are ideal for use in high-impulse environments including road maintenance, railroad work, and any environment where you need to hear surrounding sounds while protecting your hearing.

Connect-by-Cable Cutoff headsets can be used with MSA's Push-To-Talk Radio Interface. Easy to use, the PTT Interface has just one large button—just depress and talk. It is powered by the battery from the radio, eliminating any need to replace or recharge dry cells. Also, special connectors are suitable for most common radios available for basic PTT, allowing users to adapt systems to existing radios. 🧑‍🚒

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MSA expands Body Armor line by acquiring Paraclete

high-quality protective equipment and tactical gear systems. The company was founded in 1998 by Tim D'Annunzio, a former member of the elite U.S. Army parachute team, The Golden Knights.

Understanding soldiers' needs and preferences in ballistic protection firsthand, Tim concentrates on developing tactical vests and load-bearing equipment that enable users to carry weapons, communications, medical, and safety equipment, etc., more efficiently and safely.

Paraclete holds patents on a variety of vest designs, including a unique cutaway vest



system that the wearer can remove in seconds. The Releasable Assault Vest (RAV), a Paraclete original design patented in 2004, has greatly enhanced the survivability of the modern soldier.

Paraclete's latest product development is the AV2007 Tactical Body Armor System, a modular design that allows 23 vest configurations, so that users can tailor its degree of protection to specific mission or task requirements. This vest makes use of state-of-the-art materials to enhance protection against fragmentation and small arms projectiles. 🧑‍🚒

Bright helmets & cones warn of highway construction

Highway construction workers, prepare to be seen!

In recent years, increases in highway maintenance and reconstruction have resulted in higher numbers of workers injured and killed by both construction vehicles and the high-speed traffic that shares the road.

A mandate that all highway construction industry workers wear highly visible yellow-green safety gear is expected in 2007.

MSA already stocks the standard V-Gard® Hat and Cap with the 1-Touch® or Fas-Trac® suspensions in this new color. Soon, large V-Gard and vented Advance® Caps will also be offered in the yellow-green color of the Hi-Viz™ helmet.

Get your safety cones from MSA!

You can now buy safety cones—in 12-inch, 18-inch, and 28-inch sizes—from MSA distributors and DIY retailers.

The injection-molded, one-piece design prevents splits and tearing; UV inhibitors molded into the plastic reduce fading; road-gripping cleats keep cones upright even on loose surfaces; the flexible material returns to shape even when they are run over; and the wider, heavier base ensures that the cones stay upright. 🧑‍🚒



The sky is falling!

Perhaps the best part of working for MSA is hearing from people whose lives were improved or even saved, because they were wearing helmets, eyewear, fall protection, etc., or using gas detectors or TICs. A corporate safety director of a New Jersey building materials company told us this tale:

"Employees often ask, 'Why do I have to wear a hard hat when there is only sky over my head?'"

"This incident proves why. An employee was bending over to pick up an object as a forklift that was driving by ran over the edge of a piece of wood packing material. Ejected from the side of the tire, it became a missile that struck him on the side of the head.

"His MSA V-Gard® hard hat took the full brunt of the impact. The employee was not hurt. The impact caused a 4-inch wide, 3-inch high dent in the hard hat shell, but didn't touch his head.

"There were, in fact, no obvious overhead hazards. This 'saved' employee was not only lucky, he was well trained!" 🧑‍🚒



MSA's Supreme Pro™ Muffs rate high with firearms instructors



"They are so lightweight, I forgot I had them on. I never noticed any attenuation or clipping ..."

Firearms instructors who gathered at the 2006 International Association of Law Enforcement Firearms Instructors gave MSA's Supreme Pro Muffs high marks.

"I love this hearing protection," instructor Oscar Ray said. "The clarity when you are talking to someone is amazing, and it has a reduced decibel level even with high-powered rifles."

Although he had worn the muffs for more than 30 minutes on the range, Don Alwes forgot they were still on his head.

"They are so lightweight, I forgot I had them on," Alwes said. "I never noticed any attenuation or clipping that you get with other brands. I found great acoustics and good stereo separation. We were even out in the



rain, and it didn't bother them."

Jaime Moss has been both an active and civilian special agent for the Department of Defense for the past 30 years. In his job, he has worn a variety of communication systems.

"The Supreme Pro muffs are very comfortable," Moss said. "I can barely feel them on my head. I can hear other people even on low volume when they are whispering. Based on my experience, you've got one fine product."

MSA's Supreme Pro hearing protection was a hit with the firearms instructors at the event, which was hosted by the Palm Beach Sheriff's Department. 🛡️

MSA's new CBRN PAPR is first to be NIOSH-tested

On October 6, 2006, NIOSH issued their new standard for powered air-purifying respirators (PAPR) with CBRN protection. They are currently testing respirator manufacturers' devices and will issue new approvals to those that pass the NIOSH requirements.

We expect to receive NIOSH approval for our new Responder™ CBRN PAPR early in 2007.

MSA's Responder CBRN PAPR is ideal for law enforcement, other first responder, military, and special operations personnel who need CBRN respiratory protection for an extended period of time.

It is different from MSA's other CBRN respiratory protection (Millennium® CBRN Gas Mask, FireHawk® CBRN SCBA, Ultra Elite® CBRN SCBA, Universal Safe Escape™ CBRN Respirator) in that the motor-blower provides constant air flow to the facepiece via the breathing tube.

Components include a C420 motor-blower, 30" or 36" breathing tube, single-use or re-chargeable battery, MSA Millennium or Ultra Elite tight-fitting facepiece, air-flow indicator, and belt. Cartridge types which can be used are the CBRN Responder (after NIOSH approval), and the GME and P100 cartridges (already approved for non-CBRN use). 🛡️



RURAL FIREFIGHTING INSTITUTE

MSA and RFI meet firefighters' needs

MSA recently became a founding sponsor of the **Rural Firefighting Institute (RFI)** for both paid and volunteer firefighters, located in Germantown, Maryland.

This non-profit organization assists small, rural, and remote fire departments with tactical and equipment training. The RFI is dedicated to the improvement and advancement of fire prevention and control, and works to ensure all firefighters are properly trained and equipped to do their jobs safely and effectively.

As a founding sponsor, MSA will equip all RFI training sites with **MSA SCBA** for hands-on training exercises and product demonstrations. With MSA products on hand, firefighters will be able to stay current on new technologies, while giving MSA an opportunity for gathering their important feedback on product performance and design.

MSA was the first manufacturer of SCBA which met NFPA 1981-2000 standards and is NIOSH CBRN compliant. 🧯



Loyal Cairns® Helmet wearer likes the latest

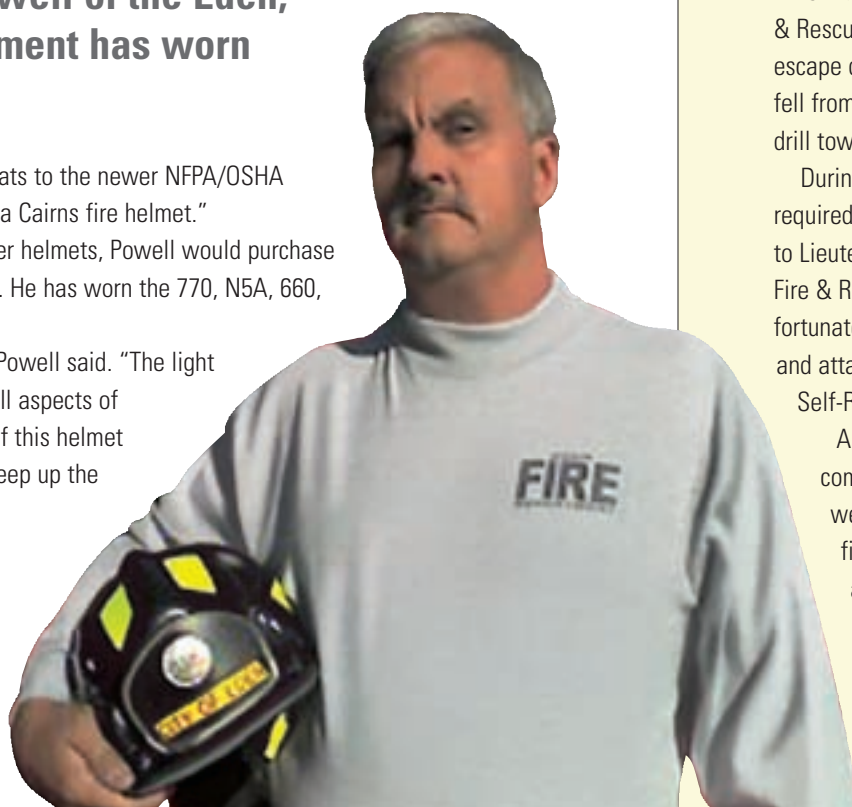
In his 25 years as a firefighter, rescue worker, and rescue instructor, engineer Joe Powell of the Eden, North Carolina, Fire Department has worn many hats.

"I have used everything from construction hard hats to the newer NFPA/OSHA helmets," Powell said. "But, I have always worn a Cairns fire helmet."

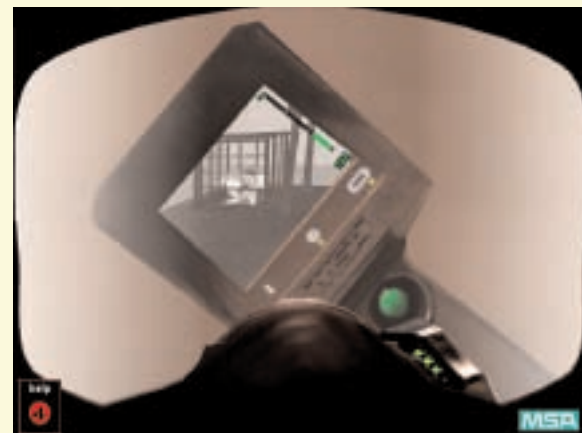
Even when his fire department was trying other helmets, Powell would purchase his own Cairns fire helmet out of his own pocket. He has worn the 770, N5A, 660, HP3, and 360R models.

"I love the low-profile 360R Rescue Helmet," Powell said. "The light weight, profile, style, and size are excellent for all aspects of rescue work. I just wonder why no one thought of this helmet even back in the pre-NFPA Philadelphian days. Keep up the good work, MSA!"

With dual NFPA certification (1971 & 1951) for structural firefighting and urban search and rescue, the 360R helmet protects without the bulk of a standard fire helmet. 🧯



Return to the Fireslayer Challenge



If you have already mastered MSA's Fireslayer Challenge: Thermal Response 3D video game, you may want to try it again.

The scenario-based training game, which MSA developed with a Carnegie Mellon University spin-off company, SimOps Studios, has been updated to include different scenarios each time the game is played.

The environment and the goals of the game remain the same, but there are more potential victims set in random places. Scoring has also been adjusted for the new version, and there is also a new high-scores page.

The game requires players to react to orders given by a fictitious fire chief, and with the help of MSA's Evolution® 5200 Thermal Imaging Camera, they rescue potential victims from the smoke-filled environment. Go to www.MSAFire.com to download the game. 🧯

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Fall protection saves trainee during tower tumble

A new trainee with Portland (Oregon) Fire & Rescue was participating in a fire escape drill 24 feet in the air when he fell from the firefighter's ladder on the drill tower.

During initial training, firefighters are required to wear safety harnesses, according to Lieutenant Kyle Wochnick of the Portland Fire & Rescue Training Division. And fortunately, this trainee was harnessed and attached to MSA's Dyna-Lock® Self-Retracting Lanyard System.

Although he fell off the ladder completely, he was uninjured. If it weren't for his MSA Dyna-Lock SRL System, the new firefighter wouldn't have been able to step back on and continue his descent. In fact, he probably wouldn't be alive today. 🧯





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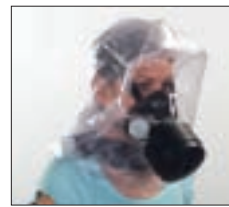
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One size fits all: Universal Safe Escape™ CBRN Respirator



The first CBRN escape respirator to be NIOSH-approved now features a universally sized hood, in response to customer requests.

MSA has re-named the product the Universal Safe Escape CBRN Respirator. Product features have not changed much since we launched the original product in three sizes almost a year ago. This respirator is also available in tactical and training versions. 🧐

MSA support means "True Value"

MSA Safety Works depends on Christine Kaniecki and Tammy Skinner, and they recently received the True Value Collaborative Commerce Program Department J Award of Excellence in inventory management and delivery.

Skinner traveled to Chicago to learn the True Value system, and is responsible for placing orders for the company and ensuring that its warehouses are properly stocked. Kaniecki takes care of the inventory from the MSA side.

"We do this so that True Value doesn't have to worry about anything," Skinner said.

This is just one more example of MSA's taking that extra step to help our retailer partners so that they can help YOU better! 🧐



Trade Show Calendar *See us at these upcoming shows!*

Jan 22-23	American Correctional Assoc.	Tampa
Jan 23-26	WOC (World of Concrete)	Las Vegas
Jan 29-31	AHR Expo	Dallas
Feb 26-28	SO/LIC	Arlington, Va.
Mar 19-21	TrexpoWest	Long Beach, Ca.
April 19-21	FDIC	Indianapolis
May 8-10	Nat'l Hardware Show	Orlando
May 15-17	GSA Expo	Orlando
June 4-6	AIHCE	Philadelphia
June 24-26	ASSE	Orlando



Find your construction products online at www.MSAConstruktor.com in both English and Spanish.

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Spotlight on Safety® is MSA's publication for customers that shows how our personal protective products and equipment solve your health and safety problems.

MSA (Mine Safety Appliances Company) has been protecting work forces since 1914. Headquartered in Pittsburgh, Pennsylvania, MSA is the world's largest company dedicated to providing a complete range of sophisticated personal protection and equipment for worker and plant protection.

Our products are used by firefighters; law enforcement officers; and workers in industrial manufacturing, construction, hazardous materials/abatement operations, mining, offshore drilling and refineries, utilities, shipbuilding, agriculture, and pulp & paper industries.

Spotlight on Safety contains only a general description of the products and applications shown. While uses

and performance capabilities may be described, under no circumstances shall the products be used by untrained or unqualified individuals and not until the product instructions, including any warnings or cautions provided, have been thoroughly read and understood. Only they contain the complete and detailed information concerning proper use and care of these products.

If you have any comments about *Spotlight on Safety*, you may contact us by toll-free phone at **1-800-MSA-2222** (Customer Service), mail, or electronic mail.

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