Blackwoods has been in the business of safety for over 140 years, so our specialist knowledge is second to none. That’s why we can assess the hazards in your workplace, provide you with a comprehensive solution, then equip you with the right gear.
Welcome to the relaunch issue of Safety Solutions. We last saw print in 2016, and I cannot imagine a more important time to return this magazine to its readers — especially those of you who have continued to follow our health and safety at work news, features, case studies and products through our digital media channel, on SafetySolutions.net.au, and in our weekly newsletter.

October marks National Safe Work Month and this year’s theme is ‘WHS through COVID-19’. In this issue, I speak with each state and territory regulator to map their plans and priorities. As COVID-19 continues to shape the way we work, also in this issue: Paul Molinia confronts the contamination possibilities of drug and alcohol testing, including ways to safeguard vital protocols, while Richard Millar considers COVID-19 in construction’s confined space environs.

COVID-19 threw down the gauntlet to those of us in the safety world. But for all the hazards and hurt the pandemic has delivered, it has also been met with innovations, solutions and work adaptations, all developed without lapse in attention to the broader work health and safety spectrum. The varied case studies and recent products that fill this issue are testament to this robust Australian response, showing our continued commitment to finding other solutions too — to combat fire and across industries such as manufacturing and mining, to name just a few areas covered in this edition.
COALMINER DIAGNOSED WITH COAL WORKERS’ PNEUMOCONIOSIS

A 61-year-old worker has been diagnosed with coal workers’ pneumoconiosis. The NSW Resources Regulator has published an investigation into how the worker, who has 41 years’ coalmining experience, could have contracted the disease.

The Regulator concluded that the worker’s condition is related to his work as a coalminer. However, it cannot reasonably be determined, based on a review of the evidence obtained, whether the worker contracted the disease as a consequence of exposure while working at a particular mine. Information about the full investigation is available here.

MELBOURNE ELECTRICIAN DIES WHILE WORKING UNDER HOUSE

WorkSafe Victoria is investigating the death of a self-employed electrician, who died while working at a property in Croydon on 18 August 2020. It is believed the 37-year-old man was electrocuted while working under the house. The fatality brings the number of deaths this year to 47, which is three more than at the same time last year.

82 NOTICES ISSUED IN HUNTER CONSTRUCTION SAFETY BLITZ

Following a construction site safety blitz across 54 commercial and residential projects in the Hunter, SafeWork NSW inspectors have issued 82 notices and six on-the-spot fines. Minister for Better Regulation and Innovation Kevin Anderson noted that SafeWork NSW has a zero tolerance approach to those who do not comply with NSW’s workplace health and safety laws.

“While many sites in the region are working hard to keep their workers safe, especially when it came to implementing COVID safety plans, the risks others are taking are totally unacceptable,” Anderson said.

Inspectors issued 26 prohibition notices, 56 improvement notices and six on-the-spot fines, totalling $18,720. The majority of these related to fall from height risks, unsafe scaffolding, electrical risks and poor risk management systems. Anderson noted that the notices are the first step in the process, as the amended Work Health and Safety Act 2017 could see non-compliant businesses facing heavy fines or up to five years in jail.

“SafeWork now has a consistent presence in the Newcastle and Hunter building industry, and the construction sites we’ve identified can expect regular visits from inspectors until they clean their act up,” Anderson said.

The NSW Government also introduced a compliance program on 1 September to undertake risk-based inspections of high-rise residential apartment projects, providing Building Commissioner David Chandler with powers to deny occupation certificates for substandard work. Anderson said those overseeing substandard building work will be prosecuted under workplace safety legislation and could also be denied an occupation certificate, meaning apartments cannot be settled.

“We’re entering a new era in building and construction where developers, builders and everyone involved on building sites is on notice: poor safety standards and shoddy, non-compliant work will not be tolerated,” Anderson said.
The operator of Maules Creek Coal Mine, near Boggabri in north-western NSW, will spend over $800,000 in undertakings, following a collision between two trucks on a main haul road of the mine on 21 April 2018. An enforceable undertaking is a legally binding agreement proposed by a company following an alleged breach, which may be considered as an alternative to prosecution.

Following the rejection of an earlier proposal, Maules Creek Coal (MCCPL) submitted a new WHS enforceable undertaking, which the Resources Regulator has accepted, requiring the company to pay at least $803,613 including the delivery of safety and community projects at a minimum cost of $600,500.

Resources Regulator Executive Director Anthony Keon said MCCPL will undertake a range of safety and community projects that will provide tangible benefits to the workforce, the mining industry and the broader community.

“These include the delivery of a community-wide mental health initiative and donations to Narrabri Shire Interagency Group, the SES and Boggabri Hospital to fund a mental health ‘Community Connect Day’ and much needed emergency and life-saving equipment. These are important initiatives given the significant challenges faced by regional communities, especially in light of the impact of issues such as drought, bushfires and COVID19,” Keon said.

MCCPL, in partnership with the University of Queensland, will undertake a project to promote safe implementation of automation and new technologies to mine sites. Keon believes these shared learnings will help all operators better identify and manage the risks associated with introducing this emerging technology. The undertaking also includes the requirement to fund an Indigenous mentoring program and reimbursing the Regulator’s investigation and legal costs, and in total is the second-highest value mining work health and safety undertaking accepted in NSW.

### VICTORIAN WORKPLACE MANSLAUGHTER LAWS NOW IN EFFECT

With workplace manslaughter laws coming into effect from 1 July, Victorian employers have a strong reason to ensure that health and safety is their first priority. Employers that fail to meet health and safety obligations face tough new penalties, if their negligence leads to a worker dying on the job. This includes up to 25 years in prison for individuals or $16 million in fines for corporations.

The new laws will be enforced with support from WorkSafe Victoria’s specialised Fatalities Investigations Team — a dedicated unit responsible for investigating workplace deaths. WorkSafe Victoria has appointed 11 members to this team, including eight experienced WorkSafe investigators and three newly graduated investigators with years of experience with Victoria Police. A total of 13 new investigators graduated in June 2020 and have started enforcing workplace health and safety laws.

WorkSafe has also broadened the criteria that define a workplace death; those killed on the road while working, suicides attributable to a workplace health and safety failure, deaths from industrial diseases such as silicosis, and workplace deaths resulting from a criminal act will be recognised in WorkSafe Victoria’s fatality toll. Under this expanded definition, there have been 41 deaths in Victoria in 2020.

This change strives to ensure that the death of every worker gets the recognition they deserve, and bring increased focused to workplace health and safety to re-enforce to Victorian employers that they must make it their first priority.

“It is simply unacceptable for any Victorian to go to work one day and never return home. The threat of jail for individuals, or a hefty fine for organisations, should stop those who think it’s ok to put other priorities above the health and safety of their workers in their tracks,” said Colin Radford, WorkSafe Victoria Chief Executive.

Radford believes that changing the definition of a workplace fatality will better recognise all deaths that occur in a workplace, and ensure they get the attention they deserve.

“This will bring increased attention to workplace health and safety issues so WorkSafe can better identify emerging health and safety issues in Victoria. It will also mean more Victorians will be entitled to much needed support following the death of a loved one in a workplace incident,” Radford said.
IN THE NEWS

NT WORKER DIES FALLING FROM THE TRACKS OF AN EXCAVATOR

On 29 July, a 37-year-old male worker died at a construction site in the Katherine region of the Northern Territory (NT) after falling from the tracks of an excavator.

The incident occurred at approximately 7.30 am and the root cause is currently unknown.

NT WorkSafe and NT Police are investigating. NT Police will prepare a report for the Coroner.

FATAL FALL LEADS TO $850K FINE FOR CONSTRUCTION COMPANY

Seascape Constructions, a residential construction company, has been convicted and fined $850,000 after a 2017 incident in which a carpenter fell to his death on a building site in Kalkallo, in Melbourne's north. The company pleaded guilty to a single charge of failing to ensure that persons other than employees were not exposed to risks to their health and safety by failing to prepare and conduct work in accordance with a safe work method statement (SWMS).

Seascape engaged the carpenter and a handyman via Gumtree to work at the site and to lay flooring. The incident occurred as the carpenter was lowering a compressed air nail gun by its air hose and fell from an unprotected edge, landing on a concrete slab about 3.1 metres below. The 68-year-old died of head injuries at the scene. It was revealed that the workers were not provided with a SWMS before commencing the high-risk construction work or while performing the work, and that no safety procedures or safe working methods were discussed.

Julie Nielsen, WorkSafe Victoria Executive Director of Health and Safety, said all workers must be appropriately trained, equipped and supervised to safely perform their jobs.

"Falls from height are a well-recognised safety hazard and are among the biggest killers of Victorian workers. This death is a tragic reminder that WorkSafe will not hesitate to prosecute any employer who fails to do all they can to protect their workers' health and safety," said Nielsen.

To prevent falls from height, employers are urged to eliminate the risk by doing all or some of the work on the ground or from a solid construction. The use of passive fall prevention devices, such as scaffolds, perimeter screens, guardrails, safety mesh or elevating work platforms, is also encouraged. A positioning system, such as a travel-restraint system, could help ensure employees work within a safe area, while a fall arrest system, such as a harness, catch platform or safety net, could reduce the risk of injuries in the event of a fall. Employers should also use a fixed or portable ladder, or implement administrative controls.

NSW RESOURCES REGULATOR RELEASES QUARTERLY SAFETY REPORT

The NSW Resources Regulator has released the Quarterly Safety Report for April to June 2020, to help the industry improve safety management systems and undertake risk assessments at their sites. The report details incidents and trends relating to hazard management, alongside sector-specific information.

"Roads of other vehicle operating areas" and "fires or explosion" are hazards that feature regularly in incident notifications to the Regulator. The NSW Resources Regulator also focuses on compliance with legislative requirements associated with principal and other high-risk hazards. In this quarter, key compliance and enforcement activities included the Resource Regulator's statutory functions review in the small mines sector, with almost 40% of safety notices issued to small mines.

The NSW Resources Regulator also conducted a proactive inspection program focused on how mine operators are responding to COVID-19 risks. From this, it was identified that most operators had implemented appropriate controls, with only a small number of issues identified which were largely minor in nature.
SAFETYHQ.COM.AU

Australia’s largest online safety gear store with over 20,000 products available for sale and immediate delivery.

LAUNCHING OCT 2020

Owned and operated by Aussie independent safety stores
Winching solution keeps underground mining moving safely

Australian Certified Winches (ACW) is an Australian-owned company that provides winches and winching solutions for the mining, marine, utilities and construction industries. Australian mining company BHP asked ACW to design a winch capable of hauling double the capacity (100 tonnes) within the same physical space as its previous 50-tonne winch, for underground mining operations, and which also conforms to the specific safety standards that winches used in underground mining must adhere to. ACW used Hydraulink to provide and install hydraulic hoses and fittings that were optimised by expert hydraulic engineering, for a new underground winch. Hydraulink is a multinational brand that provides hydraulic hose and fitting solutions across Australia, New Zealand and the Asia-Pacific Basin. Hydraulink manufactures and distributes hydraulic hoses, fittings, couplers, tube assemblies, adaptors and accessories for a range of industries, including the mining, marine, transport and agriculture industries.

"The solution was to integrate two 350,000 Nm wheel drives inside the winch drum. The winch is to be used to remove longwall machines once the longwall is finished and being moved to another seam. Current methods involve the use of hydraulic cylinders, but these can be limited in stroke length, meaning a lot more time re-rigging the haul rope. The winch has 300 m of rope, allowing for a continuous haul," said Grant Barrett, Director of ACW. ACW primarily ensures winches are suited to the particular task, and that its clients have the correct documentation and certification to operate under any appropriate regulations. ACW provides mining process winches, designed to retrieve minerals from the ground to stockpile, and mining transport winches, designed to move the material to local refineries and overseas. Some winches used in underground mining must adhere to specific safety standards, such as MDG 33 and AS 61508; such winches are known as winders, and are used to hoist materials at high speed.

"The new winch has an onboard closed loop hydraulic system that is driven by the underground emulsion fluid, so we needed expert hydraulics assistance in engineering the winch for underground use. So we contacted Hydraulink, and their team ensured all hydraulic hoses and fittings were MDG-41 compliant — including all testing and reporting — which is a requirement for any machinery being used in underground mining applications. The service from Hydraulink was fantastic. They were responsive, practical minded, safety oriented and worked well with my team. I’ll be looking to them for any future Hydraulic hose, fittings, adaptors or service needs," Barrett said. Mechanical Design Guideline 41 (MDG 41) identifies safe working practices for the manufacture of high-pressure hoses and fittings, including hazard identification, assessment, elimination and reviewing of risk.

As a hydraulic hose, fittings and service specialist, Hydraulink frequently supplies hydraulic components that must comply with local standards and safety compliances. "I was impressed with ACW’s standards and safety compliance focus, and the solution they came up with for this new winch was an outstanding piece of engineering. We were happy to be part of this project and to work side by side with another company that values safety as highly as we do. To make service and maintenance simpler in the future, we’ve set up all the hoses and parts used in this winch with individual part numbers in our system. If ACW need to replace a part in the future, we’ll have all the specifications on file, ready to go," said Adrian Burgess, Area Sales Manager (Queensland) of Hydraulink. The winch supplied by WCA was factory tested using a 150-tonne load cell and shackles. Testing revealed that it was capable of pulling 120 tonnes with ease.

Hydraulink
www.hydraulink.com.au

Factory testing (pictured) of the new winch confirmed it could easily pull more than the required 100 tonnes.
FIND THE RIGHT LABEL FOR YOUR JOB

DESIGN, PRINT & BACK TO WORK

✓ HIGH PERFORMANCE MATERIALS

✓ EASY-TO-USE ONLINE TEMPLATES

✓ A FAST WAY TO CREATE CUSTOM LABELS

Water Resistant

Tear Proof

UV Resistant

avery industrial
JURISDICTION ROAD MAP
NATIONAL SAFE WORK MONTH 2020

Dr Joseph Brennan, Editor, Safety Solutions
October is National Safe Work Month, and there was a clear choice for this year’s national theme: the coronavirus (COVID-19) pandemic. We detail the national initiatives, but also delve into activities at a state and territory level, to explore the Australia-wide plan this October to promote work health and safety, through COVID-19 and beyond.

Safe Work Australia (SWA) has led the National Safe Work Month (NSWM) campaign since 2009, with businesses, employers and workers from across Australia taking part each October to build awareness of work health and safety (WHS). The inevitability of this year’s theme — ‘WHS through COVID-19’, announced by SWA in July — speaks to the profound impact that this once-in-100-year event has had on us all. The theme was “chosen to reflect the significant impact of COVID-19 on all Australian workplaces”, SWA Chief Executive Officer Michelle Baxter told me. "The campaign and theme continue Safe Work Australia’s work in recent months to lead a focused and nationally consistent approach to WHS during COVID-19.

"What we’ve seen through the COVID-19 pandemic is just how important work health and safety is,” Baxter said. "All workers, regardless of their occupation or how they are engaged, have the right to a healthy and safe working environment.” In recognition of the COVID-19 pandemic restrictions, this year’s national campaign has a digital focus, with the NSWM website (www.safeworkmonth.swa.gov.au) acting as the central hub for campaign resources and tools. The digitally focused campaign kit resources are inclusive of web graphics, social media tiles and customisable document templates, designed to appeal to a range of organisations and industries.

The resources can be customised and shared with work teams, supervisors and health and safety representatives. Workplaces can also follow SWA on social media, to keep up to date throughout the month, and are encouraged to use the hashtags #safeworkmonth and #safetytogether when promoting NSWM across social media. The NSWM campaign is led by SWA in consultation with its members, including representatives from the Commonwealth, state and territory governments, unions and employer organisations. SWA members, I was told, were consulted throughout the development of the theme and collateral. "The national campaign,” Baxter explained, “is supported through local communication activities and initiatives led by the WHS jurisdictions.” To better understand what initiatives and resources are running in each Australian jurisdiction this October, we embark on a jurisdiction-by-jurisdiction roundup. As our tour uncovers, in some cases the national theme is carried through clearly, while other jurisdictions take October as an opportunity to spotlight more particular, though aligned, WHS concerns. The roundup helps bring to light the work being done at the state and territory levels, and the various avenues available to all responsible for WHS to get involved and help us, together, advance WHS through COVID-19.

For more information on SWA’s 2020 NSWM, visit www.safeworkmonth.swa.gov.au.

Australian Capital Territory

WorkSafe ACT WHS Commissioner Jacqueline Agius sees NSWM as “a chance to highlight the importance of workplace safety to a range of employers across all industries”. The ACT will align with the national theme, which, in its jurisdiction, “acknowledges the wide-reaching impacts of COVID-19 on ACT businesses, employers and workers”. The regulator will also be engaging with industry stakeholders, offering a range of information supports around key topics relating to COVID-19 and other WHS matters throughout October. Agius stresses that “WorkSafe ACT’s approach to NSWM will also consider the strategic priorities within [its] jurisdiction, including occupational violence and dust diseases”, and that across the month, “WorkSafe ACT will continue to engage with industry on these matters as part of its broader approach to work health and safety regulation”.

For more information on WorkSafe ACT’s October activities, visit www.worksafe.act.gov.au.

New South Wales

In October, NSW will run its ‘Safe Work Month’ (SWM), which “will focus on two key themes in 2020 — Construction Safety as well as Mentally Healthy Workplaces”, SafeWork NSW Executive Director, Community Engagement Andrew Gavrielatos told me. "Workplaces play a key role and have legal responsibilities to provide a healthy and safe workplace including managing the risk of injury, illness and disease including physical and psychological..."
injury and illness,” Gavrielatos said, and COVID-19 has raised the importance, profile and need for immediate action across the community, especially in the area of mental health and wellbeing.

**Mental health**

Issues of mental health have been highlighted by the present pandemic, and this is reflected in NSW’s activities for October, activities that were informed by the results of a survey in which businesses indicated that managing mental health at work was the number one topic they wanted more information on in the state’s SWM. “[The] COVID-19 pandemic has created new risks and raised the potential of others such as workplace stress, bullying and violence for frontline and essential workers, including threats and abuse from clients and members of the public,” Gavrielatos said. “Additionally, changing work environments and remote working have an impact on mental health due to isolation. Employers have a legal responsibility to manage these risks.

“The Mentally Healthy Workplaces initiatives will lead businesses and workers to the www.mentalhealthatwork.nsw.gov.au websites where employers and workers can find tips and support to create mentally healthy workplaces and an opportunity to sign up to free mental health training programs for leaders and individuals,” Gavrielatos explained. “Employees have a legal responsibility […] to provide a safe and positive environment for their workers. A positive workplace culture brings out the best in everyone and benefits business by increased productivity […], reduced absenteeism and increased staff retention.”

**Construction**

Regarding the state’s second focus area during October, Gavrielatos explained that spotlighting construction in 2020 is worthwhile, especially “with construction continuing to operate during COVID-19”. The regulator will work to support the construction industry to work safely during COVID-19 while managing construction high-risk harms. Ways it will achieve this include by running a ‘working at heights’ awareness and compliance program and conducting ‘construction site supervisor’ workshops with a focus on supervisor responsibility and influence, consultation, risk management and understanding of Safe Work Method Statements. “The key message for the construction industry will be — ‘Help make health and safety a priority on your worksite’,” Gavrielatos explained.

The work safely at heights campaign will be realised via workplace visits and an awareness and compliance campaign, and all construction workplaces are encouraged to contribute to this initiative through proactively identifying and controlling falls risks. Regarding the construction site supervisor workshops, these will be presented virtually by a SafeWork NSW Inspector and will cover priority topics such as ‘Talking to your workers (Consultation)’ and ‘Safe Work Method Statements’. The workshops will attract 1 CPD point for 1 hour of online learning for construction site supervisors that attend, who will also be eligible to apply for the ‘SafeWork Small Business Safety Rebate’.

**Awards**

On 29 October, the SafeWork NSW Awards will also be held — as an online event. “This year there are up to 12 awards to be presented across two new categories for businesses, and unions and industry organisations for their response to COVID-19,” Gavrielatos said. In addition, the new categories in the 2020 SafeWork NSW Awards are complement to the national ‘WHS through COVID-19’ theme.

“Small, large, regional, metro and government businesses and organisations who have demonstrated an outstanding work health and safety response to the changed working environment due to COVID-19 will be selected for this year’s Award,” Gavrielatos said.

October “provides the opportunity for a targeted reminder to focus on both physical and mental safety and look at the practical actions all businesses should take every day through the year to put health and safety first”, Gavrielatos surmised with respect to the state’s 2020 foci. For more information on SafeWork NSW’s October activities, visit www.safework.nsw.gov.au.

**Northern Territory**

At time of writing, NT WorkSafe was still finalising its activities for this year’s NSW. Those in its jurisdiction are encouraged to visit the NT WorkSafe website (www.worksafe.nt.gov.au) during October for further information.

**Queensland**

“Due to the difficult circumstances many businesses are facing because of COVID-19, all Safe Work Month events in Queensland this year will be digital and free, delivering vital safety and return to work information straight to screens across the state,” Queensland Safety Ambassador Shane Webcke said regarding the jurisdiction’s October initiatives. “The month officially kicks off on Thursday, 1 October with a digital launch featuring MasterChef’s Tessa Boersma and me in my capacity as Queensland Safety Ambassador. The morning focuses on staying healthy and safe at work and includes a cooking demonstration of how to whip up an easy and healthy breakfast.

“Throughout October, expert speakers will cover hot topics like the ongoing health and safety implications of COVID-19, wellbeing programs, safety culture and stress resilient leadership, cultural capability, mentally healthy workplaces and rehabilitation and return to work,” Webcke outlined. “The jam-packed month winds up with a mental health session featuring former Olympic swimmer Hayley Lewis on Friday, 30 October.” Workplace Health and Safety Queensland (WHS Queensland) also confirms, as has been the case in previous years, that the state will not directly run with the national theme, although many of its presentations will cover the ongoing WHS implications of COVID-19.

**Beyond the national theme**

“The national theme has much relevance, but other priority disorders should not be overlooked,” the regulator said. “We understand many Queensland businesses are going through tough times with the pandemic adding
TAKE 5 SAFETY BOOKS
Make safety and compliance easy with Take 5 Safety Books

VISIT OUR WEBSITE TO VIEW OUR NETWORK OF RETAIL OUTLETS

TAKE 5 SAFETY BOOKS
ALL-IN-ONE SAFETY SOLUTIONS
Our Take 5 safety books have been in the field for over 10 years and are endorsed by the Master Plumbers association. They allow you to:
- Easily recognise and control hazards in your workplace
- Create awareness among your employees
- Set risk management standards
- Reduce incidents in the workplace
- Meet legislation
- Fully customise a book to suit your application
- Comes in Take 5 Display Boxes of 20 units
Range of finishes and options including:
- PVC rigid cover / water protection
- Larger size 105 x 200mm
- Waterproof Stone Paper

NEW STONE PAPER VERSION AVAILABLE
RECYCLABLE | WATERPROOF | WASTEFREE

ALL ORDERS INCLUDE A BONUS PRODUCT OF YOUR CHOICE,
FREE SHIPPING ON ORDERS OVER $200 AND FREE TRAINING TOOLS INCLUDING

Free Take 5 Online Training
It's unlimited, easy to use and benefits all workers new and experienced. A series of questions will help your staff members to understand the Real Time Safety Analysis, Hazard Identification and Incident Report pocket books. Email certificate issued on completion to user and manager.

Free Take 5 Safety Posters
Remind and encourage staff to engage in site safety by downloading our free safety posters. Attention-grabbing and easy to follow, the posters help staff identify hazards, use their safety checklists correctly, and stay safe onsite.
Our Take 5 Safety Poster can also be purchased in larger sizes online.

Interested in introducing Uniprint Take 5 Safety Checklist books into your business?
Visit our website www.uniprint.com.au
to their normal pressures. However, as organisations battle hard, we wanted to make sure safety and return to work aren’t overlooked.” The regulator advised that workplaces can get involved during October by hosting their own event, “while they tune into one of our many and varied presentations”. Although social distancing must be observed, the regulator noted that October should also be a chance for workers to regroup and reconnect with their colleagues and get people talking about health, safety and wellbeing in the workplace.

“We’ve done some of the hard work and created a suite of resources to help plan and promote events. Businesses and workers are also welcome to take part in any of the 20-plus events scheduled. All they have to do is register online,” the regulator said. “We’ve got a full program of digital events planned with live-streamed expert speakers and panels. With so much on offer, you can design a Safe Work Month program tailored to your needs. You’ll come away from every event with clear take-away actions to help you immediately start improving health and safety and return to work outcomes in your workplace.”

For more information on WHS Queensland’s October activities, visit www.worksafe.qld.gov.au.

South Australia

This NSWM, SafeWork SA will be providing information and resources across a range of industries and topics and is again inviting businesses to go in the running for a share in $3000 worth of prizes by organising their own workplace activity. The competition runs throughout October and participants can register their activity anytime up until 31 October. Recipients of the Augusta Zadow Awards — the namesake of whom fought for the WHS rights of women and young workers during the 1800s — will also be announced during October.

For more information on SafeWork SA’s October activities, visit www.safework.sa.gov.au.

Tasmania

For 2020, Tasmania’s ‘WorkSafe Month’ has the theme ‘Safe Bodies, Safe Minds’, and aims to highlight the importance of our physical and mental health and wellbeing at work and to show Tasmanians what they can do to ensure work is safer, healthier and more productive. “The COVID-19 pandemic has resulted in everyone adapting to a new ‘normal’, and Tasmania’s WorkSafe Month is no different,” WorkSafe Tasmania Acting Chief Executive Robyn Pearce told me. “WorkSafe Month is funded by the WorkCover Tasmania Board and is an important event in the Tasmanian business calendar. This year, WorkSafe Tasmania will deliver an entirely virtual WorkSafe Month program full of sessions covering work health and safety, wellbeing, mental health, injury management and return to work, including webinars and online training delivered by OzHelp Tasmania (a program of Lifeline Tasmania).

“Our theme continues the WorkCover Tasmania Board’s key education and awareness theme from recent years, yet fits comfortably with the COVID-19 message as there can be no doubt the virus is a risk to both safe bodies and safe minds,” Pearce explained. “Like the national theme, Tasmania’s theme and program acknowledges and reflects the wide-reaching impacts of COVID-19 on Australian businesses, employers and workers, with WorkSafe Month events covering everything from work health and safety, wellbeing, mental health, injury management and return to work with a COVID-19 lens on many of the sessions being held.” Pearce informs me that prior to COVID-19, WorkSafe Tasmania had planned a combined online and face-to-face program for 2020, inclusive of the WorkSafe Awards, the latter of which will not be going ahead this year.

Online learning

“Due to the uncertainty associated with COVID-19, the risks to business and workers from people mixing, and the restrictions on participants gathering, it was decided that the WorkSafe Awards would not be held this year while a virtual program would allow WorkSafe to continue to provide key messaging and information to the Tasmanian community, with topics sensitive to the current climate,” Pearce explained. “Online learning will give employers and workers with an interest in work health and safety the flexibility to learn in their own time, and at their own pace. The online sessions will feature some of the latest work health and safety thinking, developments and innovations.”

Tasmania’s initiatives will provide an opportunity for those in the state to hear from expert speakers, business leaders and health and safety professionals about topics including the ongoing health and safety implications of COVID-19, mental health at work, workplace wellbeing, supporting others in the workplace, and health and safety for small business.

Pearce encourages all Tasmanians to get involved in WorkSafe Month by registering at www.worksafetasmouth.com.au to attend one of the free sessions. “Work health and safety should be part of every workplace’s culture, no matter how big or small,” Pearce believes. “WorkSafe Month is helping business and workers to achieve this in their workplace. In an increasingly complex and evolving environment, now more than ever we need to all proactively work together to ensure the health, safety and wellbeing of everyone is maintained.”
DO YOU KNOW THE DIFFERENCE?

WHAT IS SUDDEN CARDIAC ARREST (SCA)?

Sudden cardiac arrest (SCA) occurs when an electrical malfunction of the heart causes it to suddenly stop beating.

SYMPTOMS

Symptoms of SCA come on very suddenly. A victim of SCA will collapse and lose consciousness. Victims have no pulse and will be gasping or not be breathing. Without treatment, death can occur within minutes. SCA victims should be connected to an automated external defibrillator (AED) as soon as possible.

Electrical Malfunction

An AED can analyse a person's heart rhythm to determine whether an electrical shock is needed to defibrillate the heart. Some rhythms do not require a shock, but in all cases, the rescuer should perform cardiopulmonary resuscitation (CPR).

WHAT IS A HEART ATTACK?

A heart attack occurs when blood flow to the heart is impeded due to a blocked artery.

SYMPTOMS

Symptoms of a heart attack can vary, sometimes coming on suddenly and sometimes starting slowly and persisting for hours, days, or weeks. They can include pain or discomfort in the chest, back, or jaw; shortness of breath; cold sweats; and/or nausea and vomiting. Unlike with cardiac arrest, the heart does not usually stop beating.

Blocked Artery

If the artery is not unblocked quickly, the section of the heart not receiving oxygen-rich blood because of the blockage begins to die. The longer a person goes without treatment, the greater the damage can be.

IS YOUR WORKPLACE PREPARED FOR SCA?

Sudden Cardiac Arrest (SCA) is unexpected and frightening, but it can be treated. Do your part to prepare your colleagues by offering CPR training and ZOLL AEDs in the workplace. ZOLL AEDs with Real CPR Help® technology provide rescuers with real-time feedback to ensure the best possible CPR and will deliver a shock if necessary. In matters of life and death, be prepared to help save a life.

CALL FOR HELP
Contact emergency services immediately.

PERFORM HIGH-QUALITY CPR
Push hard and fast on the chest to help move blood through the heart into the rest of the body. Aim for 100-120 compressions per minute with a depth of 5-6 cm.

USE AN AED
If it's available, and administer a shock if necessary. If no AED is available, continue CPR until emergency medical services arrive.

Make ZOLL your AED rescue partner.
For more information contact us on 1800 605 355 or visit www.zoll.com.au
COVID-19 response

“Tasmania fully supports and endorses the national theme of WHS through COVID-19,” Pearce told me in response to a question on the matter. “Nationally and locally a number of restrictions have been enforced on all Australians to halt the spread of the virus. Workers and patrons have contracted COVID-19 in workplaces in a number of industries and jurisdictions, including within Tasmania,” Pearce added, pointing to the Tasmanian Government’s ‘COVID safe workplaces framework’, which highlights the key role that workplaces have in the road to recovery. “Events such as WorkSafe Month provide an ideal opportunity to share information that will help businesses and workers to embed workplace systems and behaviours that will help reduce the severity and impact of COVID-19 in the event of community transmission,” Pearce said. For more information on WorkSafe Tasmania’s October activities, visit www.worksafe.tasmonth.com.au.

Western Australia

During October, the Western Australian jurisdiction is delivering a virtual program of events and concentrating on helping to ensure that workplaces are made as safe as possible from all types of injury and illness, not just COVID-19. “During the unique COVID-19 pandemic, it is important to remain focused on health and safety overall,” Western Australia’s Department of Mines, Industry Regulation and Safety Deputy Director General Safety Regulation Ian Munns told me. “That’s why the theme of Western Australia’s 2020 Safe Work Month is ‘Staying focused on workplace health and safety’.”

The regulator encourages all of its state’s elected safety and health representatives, managers, supervisors, safety professionals, workers, students and anyone with a genuine interest in making workplaces safer to register via its website, which will feature on-demand videos from dangerous goods safety, mines safety and WorkSafe WA, as well as live interactions throughout the month. “The coronavirus has forced many of us to adapt to new practices and change the way we do things; however, it’s important that we don’t lose sight of the fact that incidents and accidents of all types are still occurring,” Munns said. For more information on Western Australia’s October activities, visit www.wa.gov.au/govern ment/safe-work-month.

Commonwealth

At time of writing, Comcare was still finalising its activities for this year’s NSWM. Those in its jurisdiction are encouraged to visit the Comcare website (www.comcare.gov.au) during October for further information.

United through COVID-19

WHS should always be front of mind, however, having it on the letterhead of our national agenda each October provides unique avenues for the advancement of health and safety at work. Such avenues have been presented themselves in 2020 especially, as calls across this country intensify for our states and territories to present a further, more unified front in the battle against COVID-19. All Australian WHS jurisdictions I spoke with demonstrated a commitment to keeping safe work principles on the national agenda year-round, but also — for this October, amid a pandemic — recognised the importance of providing a platform through which to put forward an especially impassioned safety rallying call for 2020.

To draw out this passion via example, in my discussions with each of Australia’s WHS regulators, I asked what message they had for those in their respective jurisdictions for why, in 2020, WHS matters, and what, in their view, the significance is of campaigns such as SWa’s NSWM. To select just three responses to this prompt: Safe-Work NSW’s Gavrielatos said that WHS is “as important as ever in this unprecedented year”; WorkSafe Tasmania’s Pearce echoed the familiar ethos of WHS campaigns as inspired by a wish we all have to “see every worker returning home at the end of every day” and, my favourite answer, Queensland’s Webeck took the opportunity to remind me that, simply, despite the challenges of 2020, “one thing hasn’t changed [...] October is still Safe Work Month.”

To conclude on a national note, these words from SWa’s Baxter speak to the spirit and significance of this year’s national theme: “Australia has a robust system of work health and safety laws [...] requiring employers to manage risks to health and safety and ensure a safe working environment, and this is of even more importance as we deal with COVID-19.”

Safety Solutions’ Editor wishes to acknowledge with thanks the contributions of Safe Work Australia and the regulators of each Australian state and territory to the completion of this story, and to encourage all workers and employers to take part nationally and locally this October in advocating work health and safety.

This issue is sponsored by — Blackwoods — www.blackwoods.com.au
Rack Armour is the simple superior solution to pallet racking damage caused by forklifts.

Rack Armour is a patented product, locally manufactured and internationally recognised.
Sanitiser compressor
Sany+Air is a low-pressure, oil-free compressor equipped with a pressure gun that can spray sanitising products with very little air.

Manufactured from Italian-made components, the unit is lightweight, convenient and easy to use with most hospital-grade disinfectants. Simply add a disinfectant or sanitising liquid to the 700 mL tank and spray the required area.

The sanitiser compressor has a continuous dry spray, depositing sanitising products homogeneously on large surfaces and drying quickly.

Equipped with a 5 m spiral tube, the Sany+Air compressor allows quick and free movement around objects and has been built with the same technology used in larger, professional compressors utilised in hospitals.

Bunzl Safety
www.bunzlsafety.com.au

WHS management system
The INX InControl WHS management system is designed to increase compliance and adopt a proactive approach to health and safety in managing everything from incidents to audits. INX InControl does not manage incidents or risks like other systems; it is designed to cover the full spectrum of safety with the ability for users to create their own event types or manage the standard events such as incidents, injuries, audits, inspections, risks, hazards and more.

WHS extends beyond safety managers, safety officers, managers and superintendents. INX InControl Mobile aims to ensure all employees and contractors can contribute by capturing events such as incidents, injuries, audits or inspections, completing checklists and actions anywhere on or offline directly from their phone or tablet device. Ridding the need for management via spreadsheets, it is designed to ensure accuracy of information. Risks are stored in a central register with the ability to create review events and link incidents to relevant risks.

With INX InControl users can build an organisational culture that supports the health and safety of those in the organisation. INX InControl encourages user participation through ease of use and access. With more information being captured, managers and executives have greater insight into safety culture through the reporting, graphing and analytical tools or more visually through INX +BI dashboards. With an effective safety system in place through INX InControl, it is intended that users can now focus on new policies and processes to prevent incidents.

INX Software Pty Ltd
www.inxsoftware.com

Safety books
Endorsed by the Master Plumbers Association, UniPrint Take 5 Safety Books meet legislative requirements and make it easy to reduce the chances of incidents in the workplace. The safety books are suitable for a range of industries, from mining to logistics, construction and trades. UniPrint recognises that not all work environments are created equal, and offers a range of finishes.

The waterproof stone paper safety books allow users to maintain safety practices without damaging the books, which is especially suitable for workplaces with a lot of water, grease or oil. UniPrint also offers Rigid PVC covers, and large safety books, which are 35% larger than the standard pocket size safety books, making them easier to hold, write and read.

UniPrint also offers customised safety books, featuring company branding, personalised covers, OHS contact details or site-specific emergency procedures. To help support users in the implementation of Take 5, the company offers free online training, where teams can receive a certificate. A range of Take 5 Safety posters is also available, suitable for offices, workshops or sites.

UniPrint Pty Ltd
www.uniprint.com.au

UniPrint Pty Ltd
www.uniprint.com.au

This issue is sponsored by — Blackwoods — www.blackwoods.com.au
A REVOLUTION IN RESPIRATORY PROTECTION

- High protection PAPR P3/TM3 99.95%
- Comfortable and lightweight 500g
- Reusable and cost-effective
- No belts or hoses
- Water tolerant IP Rated 66
- Smart AirSensit™ Technology
- AUST/NZ & CE approved

Request a demonstration, contact us at:
sales@cleanspacetechnology.com
WWW.CLEANSPACETECHNOLOGY.COM
The construction industry is one that has been able to continue to operate during the coronavirus pandemic, employing many thousands of workers. However, while work continues in this industry, the day-to-day needs for protection must continue too, and the risks posed from the virus itself should also be considered — to ensure workers are appropriately protected, especially when engaged in confined space environments.

Safe Work Australia provides significant guidance for construction companies on its website regarding the duties of employers to provide adequate protections for workers — as well as additional procedures for reducing exposure and the risk of spreading the disease. Working in the construction industry can never be considered risk-free and the coronavirus (COVID-19) pandemic just adds further complications to the work environment, especially in areas which are deemed to be confined spaces, of which there are many variations.
In construction

Confined space variations in the construction industry include:

- Sewers and pits
- Crawl spaces and false ceilings
- Boilers and storage tanks
- Ventilation shafts
- Access tunnels
- Telecommunications vaults
- Elevator shafts

Many of these spaces are not a safe, clean environment by their very design and are often not able to be cleaned thoroughly to attain a safe work environment. Each of these areas provides challenges to the worker to remain safe, requiring through education and training a way to control the many and varied potential risks.

Generally, when working in environments deemed to be confined space, the risks to the worker can often be categorised as follows:

- **Low risk** — When requiring access not requiring the use of escape breathing apparatus, either because the risk of a hazardous atmosphere is very low or not considered to be a hazard or that the space atmosphere is well ventilated.

- **Medium risk** — When requiring access, the use of escape breathing apparatus, either because the risk of a hazardous atmosphere is significant or the time taken to evacuate increases risk to entrants, eg, distance travelled or where there is more than one entrant. There is a realistic expectation of encountering a specified risk either due to the intrinsic hazards or introduced/task hazards.

- **High risk** — When requiring access generally requires full working breathing apparatus. This is either because there is a known hazardous atmosphere or the risks of a hazardous atmosphere occurring are significant, may be due to intrinsic hazards within the space or introduced/task hazards.

Many workplace confined spaces have poor ventilation that can allow a hazardous atmosphere to quickly develop. The hazards are not always obvious, may change from one entry into the confined space to the next and depend on the workplace or environmental circumstances. There are minimum training and qualifications to be completed for those expected to work in these environments to be able to provide information, instruction and supervision.

**Viral considerations**

Until this year, industry has not seriously considered the prospect of viruses being passed onto construction workers through close proximity in the workplace or where a person infected with COVID-19 could inadvertently pass on an airborne transmission of the virus. The virus can be easily spread by an infected person either coughing or sneezing, thereby producing an atomised virus fluid that can either cover a work surface or be inhaled by another worker.

The COVID-19 virus can be introduced to a person in a confined space or passed on to a person with standby duties if the space is: ventilated, has forced air ventilation, or where a person in the confined space is wearing breathing apparatus having an air feed from outside the space they are working in. As a worker in the confined space can be receiving air through forced ventilation, understanding the risk will go a long way to helping protect the worker. Contamination of the work surfaces after exiting the space, or in the air coming from the confined space, which may travel beyond the 1.5 metres, are also risks.
Confined space training is designed to help workers understand the risks. It covers:
- how to properly wash hands;
- how to fit and use any necessary personal protective equipment (PPE);
- adequate cleaning practices required throughout the day;
- how to set up a safe workplace; and
- instructions associated with staying home from work if sick.

Training providers are required to maintain a safe training environment. This includes:
- cleaning the workplace regularly and thoroughly;
- restructuring the layout of the workplace to allow for physical distancing;
- limiting the number of people in the training area at any given time;
- requesting that trainees wear face masks.

Training providers should have adequate facilities in the workplace to protect workers from contracting COVID-19. This includes:
- a washroom and facilities to include an adequate supply of soap, water and paper towel (workers should be provided with regular breaks to use these facilities, particularly to wash their hands) — if it is not possible for workers to wash their hands, an adequate supply of hand sanitiser needs to be made available; and
- workspaces that are regularly cleaned and allow for physical distancing.

Risk minimisation

It is the employer’s responsibility to carry out a risk assessment and identify the hazards and controls required to minimise risk. COVID-19 should be included as a hazard on this risk assessment. Additional controls that may be put in place when undertaking training and working in confined spaces during the COVID-19 pandemic include:
- 1.5 m safe distancing areas marked out where workers/trainees can safely remove their face masks after entering and fit their escape sets, and social distancing to be carried out wherever practicable;
- no sharing of breathing apparatus;
- eye protection must be worn;
- face-to-face and skin-to-skin contact must be avoided;
- disposable nitrile or similar gloves must always be worn and should be supplemented by other hand protection; and
- any used breathing apparatus, oxygen resuscitators, analgesic gas or other equipment potentially contaminated with moist droplets emitted from someone’s mouth must be removed by the individual user, placed into its own bag and then placed into a disposable bag before being tied off — these items need to be deep cleaned before re-use.

PPE should be the last resort when considering the hierarchy of controls. As social distancing may be difficult to achieve within a confined space, consideration should be given to providing additional PPE, such as disposable plastic gloves that can be worn underneath normal workwear gloves. Remember, it is the duty of the employer to consult with workers on health and safety matters, which should include the COVID-19 virus.

Forum to raise concerns

Workers should be given an opportunity to express their views and raise any work health and safety concerns. Employers should consider these views and then advise workers of the outcome of this consultation. Consultation can take place when you:
- conduct a risk assessment;
- make decisions on control measures to manage the risk of exposure to COVID-19 (eg, decisions on restricting the workplace to allow for physical distancing);
- make decisions about the adequacy of workplace facilities to allow for control measures such as physical distancing and hygiene;
- propose other changes that may affect the health and safety of workers; and
- change any procedures that have an impact on the health and safety of workers.

Cleanliness

Remember that cleanliness is king in this environment. Research suggests that the virus can survive on hard surfaces such as plastic and stainless steel for up to 72 hours or three days. Given that many work surfaces and PPE have hard surfaces, they must be cleaned and disinfected regularly. The Department of Health recommends disinfectants that are suitable for use on hard surfaces (ie, surfaces where any spilt liquid pools rather than soaks in). These chemicals will be labelled as ‘disinfectants’ and must be diluted or used following the instructions on the packaging to be effective. They include:
- alcohol in a concentration of at least 70%;
- chlorine bleach in a concentration of 1000 parts per million;
- oxygen bleach; and
- wipes and sprays that contain quaternary ammonium compounds.

More information about disinfectant selection and preparing bleach solutions can be found at the Department of Health’s ‘Coronavirus (COVID-19) Environmental cleaning and disinfection principles for health and residential care facilities’

From all this, one thing is certain: COVID-19 has changed the way we work and the meaning of health and safety in the workplace. But, it may just show us a better way to operate as we change our work methods to look after our workers’ health moving forward.
ARE YOU AT RISK OF ON-SITE ACCIDENTS?

Are your workers becoming complacent about safety?

Are workers at risk due to poor judgment?

Are your workers ignoring your safety processes?

NEED TO IMPROVE SAFETY COMPLIANCE ASAP?

The BodyGuard Pedestrian Safety Warning System achieves people to plant separation, improving on-site safety and compliance.

The system warns drivers when they get too close to pedestrians with up to 9-metre, 360-degree exclusion zones.

This helps drivers and pedestrians understand minimum safe distances between each other AND overcome their complacency challenges.

Safety breach data is also recorded each time pedestrians and drivers get too close, making these interactions clear and transparent.

From there, you can actively mitigate risk to create a safety compliant worksite sooner.

Get in touch for more information.

SAFETY EXCLUSION ZONE BREACH REPORTING

Various factors of a near-collision are recorded by the system.

- Date and time are recorded so you know when it happened to the second
- Pedestrian ID is recorded so you know who almost got hit
- Vehicle ID is recorded so you know which vehicle was involved

With this information, you can find out the what, why and how of any close call and make the right decisions to improve safety and compliance on-site.

Phone: +61(2) 43 554 554
Email: sales@orbitcoms.com
Website: www.bodyguardsafety.com.au
Fall arrest anchors are life saving devices and when conducting work at height it is imperative to know that you can rely on your systems to perform as expected. It can be a matter of life or death. The true test of a fall arrest anchor and the support structure is its ability to provide unfailing strength in a split second. Australian Standards have provided clear parameters to be achieved by manufacturers of fall arrest anchor points. The design, manufacture and installation of all fall arrest anchors comes under various Australian Standards, such as AS/NZS 1891 and AS/NZS 5532.

Anchors must be tested in accordance with their specific standard/s to ensure that they can be classed as meeting minimum performance requirements. The cold hard facts are that anchors installed on roofs that are not capable of meeting minimum standard requirements leave operators at real risk of these systems possibly failing in a fall arrest situation. To claim conformance to AS/NZS 5532, which tests the anchor when installed to the actual roof deck, the Sayfa Group’s 3sixty anchor had to pass the following tests:

1. Dynamic load in-line with roof sheet — 15 kN
2. Static load in-line with the roof sheet — 15 kN
3. Dynamic load across the roof sheet — 15 kN
4. Static load across the roof sheet — 15 kN

But the problem was 15 kN, which is the equivalent of 1530 kg. is that, for many people, it is just a number. Many do not understand how significant this load really is, which was why the car lift demonstration was chosen. “It was important to demonstrate, in a relatable way, the true strength of the 3sixty anchor and the requirements of the new Australian Standard when connected to a roof deck,” Anton Voss, General Manager of Sayfa, said. “We knew there had to be an experiment that would show it, we just had to come up with one.”

The idea of lifting a car at first seemed impossible; however, the team at Sayfa were determined, according to Technical Manager Murray Voss. “We had several brainstorming sessions and technical meetings to formulate a plan,” Voss said. “From the outset we decided that selecting a car that weighed a similar amount to the testing criteria of 15 kN would prove our point even more effectively.” The support structure was another factor to be considered. Utilising the KOMBI aluminium modular stair and platform system, the team designed and built a strong, but lightweight frame that was able to sustain the weight of the car without buckling or distorting under the pressure. This support base was secured by only using the proprietary KOMBI T-Bolts designed specifically for the KOMBI system.

On the day of the lift, in early 2020, Sayfa team members gathered around in what was supposed to be a normal welcome back meeting. “There was so much excitement amongst the team as they saw a crane start lifting a car and realised they were watching the 3sixty anchor in action,” Voss said. “I think they thought we’d lost our minds.” At the end of the experiment the 3sixty anchor had lifted 1560 kg. “Of course, we were extremely delighted with the demonstration,” Voss said. “We are 100% confident of 3sixty’s strength and design. Still, it was certainly great to see such an outstanding performance.”

Sayfa Group
www.sayfa.com.au
FOR OHS PROFESSIONALS, KEEPING UP TO DATE WITH CONTEMPORARY ISSUES IN THE FIELD IS VITAL.

Ensure you’re at the forefront of safety science practice with CQUniversity’s postgraduate course options in occupational health and safety.

Specialise in advanced areas of safety science, including:
- Risk Engineering
- Human Factors Engineering
- Accident Forensics
- Transport Safety Management
- Emergency Services Safety.

Courses are offered via our flexible and renowned online education mode, with entry options for those holding formal qualifications, as well as those with industry experience.

ACCESSIBLE, FLEXIBLE STUDY
Study online with confidence in our 40-years distance education experience, plus access to facilities and support at 20+ national locations.

TOP 10 NATIONALLY*
We’re among the best for postgraduate skills development, starting salary and full-time employment.

* The Good Universities Guide 2021

APPLY NOW TO START IN 2021
Security and safety signs

Security signs can be used to warn of controls and measures put in place to secure a building or area, such as security cameras, alarms, guard dogs or CCTV. New Signs has a range of CCTV Video Surveillance signs that are designed to increase the security of buildings and properties.

The security signs are 100% Australian made, with high-quality UV digitally printed graphics. The signs can be delivered Australia-wide, leaving the warehouse in 1–2 business days, with a unique tracking number emailed to customers. New Signs also offers 30-day hassle-free returns.

The company has a wide range of Security and Safety Signs available, with new designs available all the time. New Signs also designs and makes custom safety signs.

New Signs
www.newsigns.com.au

Air purifiers and sterilisers

The Radic8 Viruskiller air purifier for home and commercial use is designed to trap and destroy 99.99% of viruses, including the cold virus, flu virus, the SARS virus and the Coronavirus DF2. Current air purifiers have HEPA filters, which can trap some but not all pollutants. Air purifiers are suitable for use in medical centres, doctors’ offices and hospitals, which often contain many airborne pathogens from people who are contagious or have compromised immune systems. The Radic8 air purifier neutralises airborne particles, with the Viruskillers for doctors’ offices and medical centres coming in different models, depending on room size.

The Viruskiller is designed to also inactivate the influenza virus by 99.99% when used properly. Radic8 air purifiers and sterilisers are created for a range of commercial and health environments, including medical centres, hospitals, dental offices, hair salons, aged-care facilities, childcare facilities, paramedics/emergency care, schools and universities, hotels, airports, and bus and train stations.

The VK401 Viruskiller is designed for medium to large rooms up to 65 m² and is suitable for medical clinics, doctors’ waiting rooms, dental practices and childcare centres. The VK103 Viruskiller with negative pressure option, VK Medi, is suitable for larger spaces up to 165 m², and features a thick HEPA filter and turbo fan, providing increased air sterilisation. The VK103 is designed for larger medical, hospital, aged-care and education environments.

RADIC8 Australia
radic8.com.au

Flex waist mens cargo pant

The P/V Gaberdine Flex Waist Mens Cargo Pant from NNT Uniforms provides extra movement and comfort, with belt loops and utility pockets. An update to the CATCFE Cargo Pant, the functionality of cargo pants has been improved by adding a Flexi-Waist feature, with an internal elastic waistband.

The straight leg pant features zip and button closure at the front, with six belt loops and a key loop above the left hip pocket. The cargo pant also has two front hip pockets with an internal pocket flap at the right side, which can be tucked in or pulled out for additional storage. The cargo pant also provides two back patch pockets and two side leg utility pockets with multiple inserts for storage.

NNT Uniforms
www.nnt.com.au

WHO CAN AFFORD TO LET SAFETY SLIP

Reduce slips on metal grate stairs and flooring!
Reduce workers risk of injury!
Reduce maintenance costs!
Save money from lost time caused by accidents!
Add traction only to areas that need it!

Injuries from slips, trips and falls have conservatively made up approx 12% to 15% of workplace accidents every year. Until recently this issue has been difficult and expensive to fix with metal gratings. Grate Cleat addresses this by clipping on in seconds to provide double row extra traction on slippery or worn areas. Made in Australia from a tough UV stabilised fire retardant polymer.

For more info and enquiries visit www.gratecleat.com

This issue is sponsored by — Blackwoods — www.blackwoods.com.au
Public access defibrillator
GeoSaver is a fully automatic, GeoLocation compatible PAD (public access defibrillator) from Taleb Medical, suitable for any operator with minimal training. It is designed for public access use and licensed to administer fast and safe treatment against cardiac arrest, anytime and before the EMS team arrives.

The product is practical and intuitive, with audible and visual CPR guidance and clear instructions to support the rescuer through the protocol for an effective life-saving action. The GeoSaver is small and lightweight, and equipped with ultra long-life batteries for maximum reliability. The battery is also disposable, and can last up to 400 shocks or six years. The GeoSaver is suitable for adult patients (>8 years old or over 25 kg) and children (1–8 years old or weighing less than 25 kg). The product features several protocols, including escalating energy from 50 to 360 J.

The GeoSaver also provides effective data management, with an SD card capable of recording up to 80 h of ECG, events and voice (operator and environmental). It also comes with an optional IRDA port for data transmission to thermal printer and ‘Saver View Express’ patient managing software. Taleb Medical is an Australian medical equipment supplier, bringing innovative products to the Australian market.

Taleb Medical Pty Ltd
www.talebmedical.com

One of these ‘Volunteers’ has an advantage...

Our Rescue Dummies will not;
✓ Complain
✓ Tire
✓ Break (within reason!)
✓ Stop working at temperatures approaching 160°C
✓ Get too cold
✓ Be late for work
✓ Get hungry
✓ Require a mask (or social distancing)
✓ Mind being buried or thrown out of windows
✓ Object to working with HAZMAT
✓ Complain about working conditions
✓ File for Compo
✓ Lose a limb

What they will do is enhance your training and enable you to train in scenarios that are otherwise impossible with live ‘volunteers’.

We have 11 categories of Rescue Dummy, and 49 variants. Please contact us to find out which would be best for your training.
With the increased awareness around working at height, the introduction and use of Self Retracting Lifelines (SRLs) as a means of effective anchoring and work positioning has also increased. But with this improved awareness comes an assumption that all fall protection products are equal as far as addressing the multiple risks found in the workplace.

Manufacturers, Product Testing Facilities and Certification/Standards Organisations around the world have been re-examining how SRLs in fall protection systems perform across a wider variety of applications and orientations, particularly when subjected to sharp edge and leading edge environments. What has been identified is that “leading edge” presents unique hazards to workers at height due to the high potential for lines to become damaged and compromised and the increased potential for swing fall. There is also the risk when workers are attached at foot level they will fall further than they would if anchored at shoulder height or directly overhead increasing issues around fall clearance.

Most SRLs are designed to be mounted to an overhead anchorage point. However, there are certain applications where an overhead anchor is not available, so it is not uncommon to see SRLs used horizontally. But not all SRLs are tested or designed for use in the horizontal plane.

In identifying the “leading edge” risks, manufacturers have re-designed SRLs to work with ground level anchors by engineering extra features to compensate for the changes in the dynamic of the fall and mitigate the increased dangers associated with the change in operational use.

SRLs react to a fall when the lifeline accelerates out of the housing at a certain velocity. When SRLs are anchored at foot level, the lifeline may not achieve the required acceleration during the fall to activate the braking mechanism until after the user’s D-Ring connection passes over the leading edge and they fall below the level of the anchor. This means the user may already have fallen more than 1.6m before the SRL engages and arrests the fall. Falling further means the impact on the body will be potentially higher when the fall is arrested. This is why leading edge rated products utilise an additional external energy absorber to ensure the forces on the body remain under 6kN.
As mentioned earlier, whilst orienting the SRL on the horizontal and off to one side of the anchor, a fallen worker may swing like a pendulum. Whilst this in and of itself is dangerous, the danger is amplified if the lifeline is extended over a sharp edge and the cable saws back and forth across this edge. If the lifeline bends 90° around the sharp edge of formwork, concrete, or other work surface during a fall, the amount of force generated by the fall arrest can be enough to cut through the lifeline of a standard “overhead” SRL.

Whilst industry has worked to address the risks associated with leading and sharp edge environments, EN and ANSI Standards Organisations have worked to determine certain criteria to define the characteristics of these work areas. Through testing and analysis, they have confirmed a number of factors, including the notion that the use of traditional overhead SRLs anchored at foot-level will see forces generated in excess of the engineered safety parameters of the traditional overhead SRL device.

As a result, Leading Edge SRLs have been developed to comply with these new Standards and address the potential risks associated with leading edge and sharp edge applications. These enhancements include utilising cable and webbing with greater strength and wear resistance properties and specialised energy absorbers and impact indicators to positively identify equipment that has been exposed to a fall.

It is important never to just assume a product is fit for purpose, and to always check the manufacturer’s instructions or contact them directly to determine if the SRL can be used horizontally.

A key advantage in adopting Lead Edge technology when specifying working at heights PPE is the versatility this type of engineering offers. Managing the correct use of equipment on site can be complicated, especially when work locations do not necessarily allow for access to overhead anchor positions.

Rather than run the risk of workers connecting standard SRLs to incorrect anchor points and introducing new hazards to the existing work area, utilising a Leading Edge SRL allows for horizontal and vertical applications, removing the need for the close monitoring of PPE use and stronger administrative controls and creates an opportunity for a more complete management of working at heights and edge interactions.

MSA’s V-EDGE SRL has been designed to be used in horizontal, overhead, and leading edge applications, taking the guesswork out of equipment selection. We have introduced product features in the design to enhance user experience and the lifespan of the product including the retraction dampening feature which controls the rate of lifeline retraction speed, preventing unwanted damage to the unit, and maximising product longevity.

The ballistic grade polycarbonate casing is engineered to resist impact damage and protect the internal components. In fact, all our componentry is specified with performance, durability and corrosion resistance in mind. The internal componentry is 316 grade Stainless Steel to ensure the device operates safely in the harshest environments.

MSA has also introduced the use of a roll-cage to protect the V-EDGE at foot-level anchors allowing for free movement of the unit during use. This also acts as an ergonomic carry handle.

Our V-EDGE has also been designed for ease of inspection and field serviceability. Operational downtime is minimised through the innovative engineering which requires no calibration. The annual inspection is reduced to a simple visual and tactile one, with the clear polycarbonate case allowing for the internal examination without the need for stripping the unit down.

This unique modular design also means the units are field serviceable. In the event of a fall replacement, parts can be easily installed with minimal training to get the units back into service without having to be sent off site for servicing. This positively influences the total cost of ownership considerably, streamlines equipment management processes and ensures workers are never left exposed by essential PPE being unavailable. MSA V-EDGE offers world leading design and performance, ensuring workers at height, regardless of the anchor position, operate safely and are confident their PPE will work first time, every time.

A comprehensive range of MSA Fall Protection is available. For further information about the MSA V-EDGE Self Retracting Lifelines please visit: https://au.misasafety.com/leadingedgefallprotection.

MSA Australia Pty Ltd
au.misasafety.com

This issue is sponsored by — Blackwoods — www.blackwoods.com.au
In-line air regulator

Factory set to prevent pressure changes, the ToolReg In-line Air Regulator is designed to be fully tamper-proof and ensure that only the required pressure is used for each individual pneumatic tool. The automatic secondary pressure relief releases all the residual pressure in the pneumatic tool to prevent unexpected activation (common in nail guns and staplers).

Compressed air is expensive to generate as there is a lot of energy (electrical and mechanical) involved in producing it. Higher compressed air pressures require far more energy to produce. On average, the air compressor requires 1% more energy for every 0.15 bar increase in compressed air pressure.

Each pneumatic tool is designed to perform best at a given pressure. Operating the tool at a higher pressure not only reduces the performance but also shortens the possible lifecycle of the tool.

The ToolReg is an economical investment for energy efficiency. It optimises performance and lengthens the lifespan of the tool, as well as preventing loss of production time due to the damaged tool being out for repairs.

Compressed Air Australia Pty Ltd
www.caasafety.com.au

Personal protective clothing

Bruck XCELL 260 fabric provides those at risk from exposure to heat and flame with a lightweight, high-strength natural fibre, featuring next-to-skin comfort and breathability. The fabric was developed to provide firefighters and workers exposed to electric arc, flammable gas or liquid or flash fire with a single layer of fabric that is sustainable and provides comparable mechanical performance to synthetic materials. Bruck has achieved this using Australian cotton and the durable PROBAN flame-resistant process.

Garments made from XCELL 260 fabric are available in high-daytime-visibility warning colours, and are suitable for certification to ISO 11612, AS/NZS 4824 and ISO 15384. The garments also fulfil the requirements of NFPA 70E PPE Category 2. Further benefits from cotton add resistance to UV degradation and high tear resistance even when wet. The result is a performance fabric for those seeking to purchase garments with a long service life and improved sustainability outcomes.

BRUCK TEXTILES
www.brucktextiles.com.au

Lockout hasps

Lockout hasps are one of the items extensively used in lockout tagout procedures. They are designed to provide maximum protection to workers while they are carrying out maintenance of plant and machinery. The locking facility on a lockout hasp suits group isolation situations — where more than one person is working on a piece of equipment at any one time. The hasp allows multiple personal lockout padlocks to be applied to one isolation point together with a lockout device.

The hasp is attached to the isolation point on the machinery. The person initiating the work then attaches their personal padlock to the hasp. Any other workers who may need to simultaneously do maintenance on the machinery also attach their personal lockout padlocks to the hasp, preventing the machinery from being operated until all locks have been removed.

To support your procedures, Cirlock has a full range of lockout hasps, available in many different sizes, from 6 holes to 24 holes. Hasps are also available in aluminium and non-conductive materials, as well as high visibility hasps.

Cirlock
www.cirlock.com.au
**Speed gates**

Smart technology company RCT’s Muirhead Speed Gates are designed to ensure all industrial vehicles — such as forklifts and reach trucks — are travelling at an appropriate speed for their surroundings.

The systems are easily deployed at entrances/exits and designated points within warehouses and other materials handling facilities and cap maximum speeds on any piece of industrial equipment passing through the portal.

A worksite may be set up to cover up to four safe speeds per site so the materials handling equipment can only travel at designated speeds through specific areas such as yards, racking aisles, calm zones (pedestrian areas) or under awnings.

The Speed Gate system consists of a gate that is to be located above entrances/exits which communicates with a machine location tag mounted on or close to the roof or falling object protective structure (FOPS) of a forklift.

The machine location tag then communicates with a Muirhead Speed Limiter to manage the speed of the forklift depending on the specific location it is traversing through onsite. Additionally, depending on machine type, Speed Gates may be able to interface directly with OEM speed limiting features.

Simple to install, the system requires no ongoing maintenance and can be applied to any type of materials handling equipment regardless of manufacturer. It is suitable for large and small sites that operate mixed fleets.

**RCT**

www.rct-global.com

---

**Can you afford not to test?**

Eliminate Drug & Alcohol abuse at your workplace with Pathtech

**The Securetec DrugWipe**

› Number 1 selling saliva testing device in Australia
› Used by every Australian Police Jurisdiction for roadside drug screening
› Accurate, reliable and results in 8 mins

**Up to 15%**

of workplace injuries worldwide are attributable to drug & alcohol use

**Around 60%**

of individuals who consume drugs & alcohol at harmful levels are in full time employment

**Estimated $6 billion**

per year in lost productivity through alcohol & other drugs in Australian workplaces

**Pathtech, First Choice in Drug Detection**

Contact us today to discuss your Drug & Alcohol detection needs

Phone 1800 069 161 | Email drugwipe@pathtech.com.au

pathtech.com.au/eliminate

---

This issue is sponsored by — **Blackwoods** — www.blackwoods.com.au
To mitigate the potential risks arising from workers operating under the influence, organisations in the safety-critical mining, construction and transport industries often implement drug and alcohol (D&A) testing protocols. But, are these protocols still necessary during COVID-19, or do the contamination possibilities of D&A tests pose more risks than they allay?

During the coronavirus (COVID-19) pandemic, Australian workers have been hitting the bottle more heavily than usual. With the ongoing stress of the pandemic conditions, we’re turning to booze to ease our anxiety, but it’s a problematic strategy, particularly in those industrial sectors roles that already have a high incidence of drug and alcohol misuse or abuse. While less data is available about drug use during COVID-19, it seems reasonable to assume it continues to be an issue, supply difficulties notwithstanding. While it’s important that employers have empathy for employees who have found themselves experiencing increased stress and anxiety due to the pandemic, those organisations that have D&A testing regimens need to continue to uphold them during COVID-19, as the consequences of not continuing D&A testing are too serious to ignore, but it’s important that the testing be conducted hygienically and safely, preferably by professionals, and that workers are treated respectfully in the process.

Consequences of discontinuing D&A tests amid COVID-19

Industry risks
The industries that usually conduct these tests are those where an employee who is affected by D&A could pose a significant safety risk to themselves or others in the course of their work. They may be operating machinery, performing manual handling duties or working with the public (such as delivery drivers). When these workers aren’t fully cognisant of what they’re doing, the consequences can be devastating and can include serious injury or potential loss of life, for them or someone else. A worker who is under the influence of drugs or alcohol may also be less vigilant when it comes to hygiene precautions such as frequent handwashing, social distancing and the wearing of appropriate personal protective equipment (PPE).

To keep the virus contained, everyone needs to be taking very conscious and deliberate steps to protect themselves and others. This requires diligence, attention and thought, and alcohol or other substances can compromise a worker’s ability to pay attention and give the requisite consideration to their actions. In this same vein, significant drug or alcohol use may possibly affect a worker’s ability to recognise and appreciate that they have symptoms of coronavirus, or even obscure those symptoms. As such, they could unknowingly spread the virus throughout their community, adding to the already concerning levels of community transmission cases. As well as compromising the safety of those around them, workers impacted by alcohol may also put themselves at additional risk.

Personal risks
Research has shown that frequent drinking lowers the immune system. So, if someone is a heavy drinker, they are actually more susceptible to infection and at greater risk of contracting a virus like COVID-19. We also know that heavy use of alcohol increases the risk of acute respiratory distress syndrome developing from COVID-19, which is a very serious illness. While maintaining D&A testing during the pandemic is important, it’s also vital that those workers subject to tests are consulted about how it will be conducted safely.

Responsibilities to conduct testing safely

Keep workers informed
Workers have the right to be informed how testing procedures in COVID-19 will take into account the very real risks of infection transmission posed by this sort of contact. They should be reassured that their employer has taken the necessary steps to adjust the practice of testing so it includes the additional hygiene measures that COVID-19 necessitates.

Choose reputable providers
D&A testing should be conducted by reputable providers, and in conjunction with pre-employment assessments and random testing protocols, providers should have updated their testing methods in light of COVID-19 transmission concerns. There should be a focus on minimising the potential of droplet contamination, particularly with breath testing, which can be achieved by using a testing machine.

D&A testing should be conducted by reputable providers, and in conjunction with pre-employment assessments and random testing protocols, providers should have updated their testing methods in light of COVID-19 transmission concerns.

This issue is sponsored by — Blackwoods — www.blackwoods.com.au
Employee wellness programs can help

Ideally, organisations should be looking at strategies to help their employees limit or mitigate the effects of their alcohol consumption on both their health and their work, regardless of whether crisis events like COVID-19 are co-occurring. An employee wellness program (EWP) can be a very effective way of achieving this. The idea of an EWP is that it’s proactive rather than reactive. It encourages and facilitates employees to maintain good health all the time, rather than just dealing with the effects of ill health.

A workplace wellness program should include measures to promote good health physically and psychologically, and incorporate training that teaches participants to recognise and manage stress without using alcohol or drugs. When employees are given assistance and encouragement to make healthier lifestyle choices, both they and their employers benefit. And when crises like COVID-19 occur, the framework is already in place for giving people the support they need to cope with elevated stress.

Recovery Partners
www.rp.com.au

with a mouthpiece adaptor and one-way valve so that any droplet contamination is contained within the mouthpiece. The assessed individual should then dispose of the mouthpiece themselves. The testing equipment must be disinfected between every sample and assessors must adhere to all relevant precautions like maintaining social distancing and wearing PPE while they conduct the tests.

COVID-19 compounded existing concerns

Australians are already concerned about how our culture normalises drinking to excess and about the individual, community and interpersonal implications of this. The research on the catastrophic physical and mental health effects of sustained drug and alcohol use is clear. We also know that workers consuming excessive alcohol not only affects their work performance, but also comes at a substantial cost to Australian businesses, with billions of dollars lost in productivity and to absenteeism every year. We’ve already seen the economic uncertainty and job insecurity the pandemic has brought about, and nobody wants to see this compounded even further. D&A use among workers was a problem prior to the pandemic, and the stress of the pandemic has amplified it. As such, discontinuing D&A testing now would be completely counterproductive.
**Variomatic safety glasses**
The uvex sportstyle variomatic safety glasses are suitable for frequent movement between light and dark work areas. When wearers go from inside to outside, the lenses darken within 10 s, from 70% light transmission to around 32% light transmission. The lenses then lighten up within 30 s when wearers go back inside, versus other lenses that can take up to 2 min. The switching time enables the wearer to adjust to their surroundings quickly.

Available in the uvex sportstyle model and weighing 23 g, the lightweight and balanced spectacles provide extended wearer comfort with optimal fit. The adjustable and soft nose bridge is also flexible, for a comfortable and customised ergonomic fit. The safety spectacles have a supervision excellence coating, making them anti-fog on the inside and scratch-resistant on the outside.

**UVEX SAFETY AUSTRALIA LIMITED PARTNERSHIP**
www.uvex-safety.com.au

---

**Flexible fit earplug**
The 3M E-A-R Flexible Fit Earplugs are designed for insertion into the ear canal to help reduce exposure to hazardous levels of noise and loud sound. The earplugs are available in corded and uncorded form. When properly selected and worn according to the user instructions, the earplugs may be used for protection against high noise environments, providing effective protection across most noise frequencies in a wide range of industrial and leisure environments.

The earplugs have a range of applications, including automotive, construction, heavy engineering, metal processing, textile manufacturing, woodworking, and chemical and pharmaceutical manufacturing.

The earplugs are re-usable for up to two weeks when following wash and care instructions. Their foam encapsulated design means total earplug (stem and tip) are made with 3M patented washable foam, which is resilient and made of predominantly water-resistant closed cell TPE. The conical shape of the earplug and its soft conforming form provide a comfortable fit. The earplugs do not require roll-down, which helps keep them clean during fitting. This, along with the firm yet flexible fitting stem, means the earplugs can be inserted and removed easily, even when wearing gloves.

The earplugs are compatible with the 3M E-A-Rift Dual-Ear Validation System and have been produced to comply with the requirements of the Australian/New Zealand Standard AS/NZS 1270:2002, under an agreed production certification scheme operated during manufacture in accordance with the SAI Global Standards Mark Program.

**3M Safety & Graphics**
www.3M.com.au/ppesafety

---

**Clip-on nylon insert**
Grate Cleat makes a clip-on nylon insert for open metal grate flooring to reduce pedestrian slips on stairs and walkways that are used extensively in industry. This flooring has been a primary choice when light, air and liquids need to pass through it. But when it is wet or worn those areas can be notoriously slippery for personnel. Trips, slips and falls conservatively make up approx 12%–15% of accidents in industry. To address these problems this International Patent pending non-slip cleat can be installed, clipping in place in seconds creating double row extra traction in the areas that need it.

This eliminates the cost of replacing or repairing the grating in worn areas and greatly reducing the ‘slippery when wet’ problem in others while still allowing light, air and products to pass through it as intended. They are made bright yellow, making stair edges or areas that people need to take care on very noticeable. They are made from a wear-resistant, flame-retardant, UV-stabilised polymer, which is very strong and capable of withstanding a wide range of acids and alkaline, oils and petrol without corrosion or effect.

**Grate Cleat Pty Ltd**
www.gratecleat.com
COVID-19 touchless check-in app

SafeEntry Australia is a community-driven COVID-19 touchless check-in app with automated contact tracing and alerts. Rather than using GPS or Bluetooth technology, which often exchanges geolocations between devices, the app uses QR Code technology for businesses to check in visitors anonymously.

To do this, business owners must register their venue with SafeEntry Australia, which will then provide a unique QR code for their venue. When visitors arrive at their premises, they can scan the code — which can be placed at the front entrance — on their smartphone or tablet, to facilitate a quick, touchless check-in. The business receives an instant app alert if a patron is confirmed COVID-19 positive.

The app also enables users to check in individually with family, friends or work colleagues, by scanning a person’s unique QR code when they meet up. Users can also download individual QR codes for various locations, such as their home and workplace — even their car — by registering these locations within the app for people to start scanning when they enter these locations. Once a QR code is scanned, the device exchanges an anonymised ID, which is stored in encrypted form in Australia-based data centres only. If a user declares they are infected with COVID-19, the app will notify all people and centres the user has scanned within the last 14 days.

The app has been developed through a collaboration between Apiro, an Australian data platform technology specialist, and Mountain Pass, an Australian mobile development and integration company.

SafeEntry Australia
www.safeentry.com.au
Australian-based manufacturing strengthens safety credentials

The Australian Made, Australian Grown logo, the registered certification trademark, is a marker of quality, and has been central to the Trafalgar Group’s manufacturing operations. The Australian Made logo is featured on the company’s range of access panels, pallet systems, store-safe boxes and the patented and award-winning FireBOX range, and has helped strengthen confidence in the company’s safety credentials. “The logo gives our customers confidence that an independent body is verifying the products, so they really are Australian Made,” Trafalgar’s owner, John Rakic, said. “It assures buyers that the products are manufactured to Australian high standards and suitable for our conditions.”

Rakic purchased the business and rebuilt the company’s Australian manufacturing operations in 2009, though the business dates back to 1945.

“The Trafalgar story is one of innovation and a stubborn ability to survive and thrive,” Rakic said. “When we purchased the business, it was fundamental for us to keep innovation and product manufacturing here in Australia.”

Australian owned and operated, Trafalgar now operates three sites across Australia, in South Granville, NSW; Ingleburn, NSW; and Brendale, Queensland, employing more than 70 staff. “My current goal is 100 employees,” Rakic said. “Strengthening manufacturing operations in Australia is beneficial on so many levels. Not only are we providing local jobs, but we are also investing in research, development and domestic manufacturing facilities. In Australia, we have complete control over the manufacturing process and can ensure all our products are made for Australian conditions and high standards.”

Trafalgar’s products have carried the Australian Made logo for many years, showing customers that the company manufactures in Australia, employing and investing in local talent. According to Trafalgar, the company is committed to finding solutions for its clients, using its technical expertise. In 2018, the company’s FireBOX won the Australia Institute of Refrigeration Air Conditioning and Heating’s (AIRAH) Product of the Year Award. “The AIRAH Awards recognise stand-out projects, people and products of the Australian HVAC&R industry,” Rakic said. “And Trafalgar are ecstatic that the FireBOX family won the Product of the Year Award for 2018. We are dedicated to delivering the highest standard products, systems and solutions that exceed our customer’s expectations.” According to Trafalgar, the company intends to continue to grow and innovate new Australian Made products, with the Australian Made fire rated access panel, FyreSHIELD, released in July 2020.
Gas detection controller

The MGS-402 dual-channel gas detection controller from Bacharach enables ASHRAE 15, EN 378 and CSA B52 safety compliance for refrigerant, toxic and combustible gas detection applications. The system is designed for safety compliance in mechanical rooms, cold storage facilities, walk-in freezer and cold room applications to -40°F/C.

The MGS-402 is part of the MGS-400 series gas detectors that connect through Modbus to up to two remote MGS-410 gas detectors at up to 1000’ (305 m). The MGS-402 is powered by 110–240 VAC and provides three 10 A output relays (fault, low alarm, high alarm) to initiate auxiliary ventilation or restrict refrigerant flow. The MGS-402 also provides two analog outputs for interface to a BMS or fire/safety panel packaged in an IP66 enclosure. Upstream Modbus connectivity enables remote configuration and communication with building management systems.

The MGS-402 has a built-in audible alarm and high-visibility visual alarm that eliminates the need for an external horn/strobe in close proximity. The remote silence input enables silencing the alarm from outside the monitored environment. Configuration of the MGS-402 is simple and intuitive, reducing installation time.

Bacharach
https://blog.mybacharach.com

Emergency safety shower decontamination booth

The Laboratory Applications Emergency Shower Booths from HEMCO are available with finished side exterior panels. HEMCO decontamination booths are fully assembled and ready for installation to water supply and waste systems.

When time is of the essence, after an exposure to a hazardous chemical substance, any delay, even for a few seconds, can result in serious injury. OSHA and ANSI require that emergency showers be located within 10 seconds’ walking distance from the hazardous site location.

The shower is moulded one-piece seamless of chemical-resistant fiberglass and is equipped with a pull rod activated shower and push handle eye/face wash for immediately drenching of personnel that have been exposed to hazardous chemicals. The shower is equipped with frosted front strip curtains, interior grab bars, raised deck grating and bottom or rear drain outlet. It is compliant with ANSI and OSHA requirements.

HEMCO Corporation
www.hemcocorp.com

www.drugalert.com.au

3 times more likely to get caught.
DON’T RISK IT.

Test yourself, not your life.

Drug Alert kits use the same technology as that found in professional screening laboratories, without the need to send them away to obtain results.

Order online to SAVE 15% on all Drug Test Kits. Limited time only.
Cut-resistant glove

The Aquila RE05F glove is cut-resistant and double-coated with foam and full flat nitrile, which provides abrasion resistance. This is achieved with 100% cut-resistant yarn throughout the glove (not just on the palm), followed by a two-stage foam and flat dip process, making the glove waterproof and chemical resistant, while maintaining a good grip and dexterity to suit general-purpose usage.

The RE05F glove represents Aquila’s purpose-designed personal protection approach for the waste processing and recycling industries, where the range of risks varies widely from process to process. Glove development for these applications makes life safer and more comfortable for operatives — in the case of the RE05F this is typically in a picking role at the conveyor belt stage where it provides extra protection from fast moving objects.

Related products for the waste processing/recycling industries include Aquila’s impact protection range featuring TPE (thermal plastic elastomer) on the back of the hand and fingers for protection against fast moving hard/sharp objects at picking stations on conveyor belts. Good examples are the TOG4B glove with genuine Alkimos cut 4 yarn providing full cut resistance throughout the glove. An additional nitrile coating with sandy finish aids grip levels in both wet and dry environments, with good oil and chemical resistance. The sister TOG6W includes an extra comfortable brushed liner for added warmth — suitable for temperatures down to -30°C.

Aquila
www.aquilaglove.com

Modular signalling column

The A7 signalling columns from Leuze are modular and offer flexible configuration in a 70 mm-diameter housing. The clear lens modules are designed with LED technology to ensure a long lifetime, offering distinct visibility in sunlit areas. The functions for the signalling columns are blinking or steady light and can be achieved over all types of PLCs. An automatic electrical connection using a bayonet lock system with tension spring technology between the modules makes the signal column easy to use.

The signalling columns are available with or without a buzzer. For single-sound buzzer modules (up to 105 dB), options are steady sound, pulsing sound or potentiometer for adjustment of volume. For multiple-sound buzzer modules, options include eight different sounds, sounds adjustable by dip switch and a potentiometer for volume adjustment.

The pins of each lens are connected to the colour, not to the position. This allows the operator to easily change the order of the modules. Three different pole lengths (100, 250 and 400 mm) are available. A pre-assembled tower light with a 100 mm base in red, orange or green is also available.

Leuze electronic Pty Ltd
www.leuze.com.au
Health and safety hazards are a critical consideration in any workplace for both the employer and employees, and the welding workplace is no exception. However, if safety measures are accurately implemented and appropriate personal protective equipment utilised then much of the risk can be mitigated, if not fully eliminated.

Welding can present numerous health risks to the eyes, skin and lungs. Bright light and ultraviolet radiation, toxic fumes and gases, noise as well as heat and fuel to ignite a fire are all hazardous by-products of the welding process. The correct risk assessment, implementation of procedures and the use of approved protective gear can, however, make welding a safe procedure.

**Burns**

Burns are one of the most common injuries in welding and can occur on the skin and to the eyes. The intense ultraviolet and infra-red rays from welding can cause symptoms similar to extreme sunburn if a welder’s limbs are not covered. Hot spatters can also burn unprotected skin. All parts of the body including hands and feet need to be protected from burns.
In the case of eye injuries, welding flash or arc eye is probably the most common eye injury among welders who refrain from wearing appropriate eye protection. Approved clothing, footwear and gloves will protect the limbs of a welder, while the eyes and face can be safely protected by using the correct helmet. Helmets that feature Auto Darkening Filter lenses and passive lenses (Approved Coloured Glass welding lenses) provide 100% protection against bright light burns and ultraviolet radiation.

**Electrical shock**
Welders can also suffer from electrocution if they come into contact with live parts. Welding involves the use of live electric circuits to create a pool of molten metal, and therefore, the risk of electrocution is ever present. However, wearing the appropriate personal protective equipment (PPE) can help minimise the risk of electrocution. Hazardous environments such as damp areas, confined spaces and working on metal floors should also be avoided to reduce the risk. All welding equipment should be in good working order, and serviced and maintained by a qualified repairer.

**Fire**
The risk of fire is another safety hazard that welders need to consider. Welding creates heat, sparks and flames. When combined with fuel and oxygen, these sources of ignition can cause a fire or explosion. Fire-retardant clothing is a must for any welder and welders need to be mindful of isolating fuel sources from ignition sources. They should also refrain from storing flammable and combustible materials near welding areas, and if they are working with drums and tanks that once held flammable materials, any traces of the combustible substance need to be removed or neutralised prior to welding.

**Fumes and airborne contaminants**
The inhalation of fumes and airborne contaminants as a result of welding can cause irritation of the nose and throat, tightness in the chest, wheezing, asphyxiation, asthma, metal fume fever, damage to the lungs, bronchitis, pneumonia or emphysema. Exposure to welding fumes can also cause cancer. The International Agency for Research on Cancer (IARC) reclassified welding fumes from Group 2B (possibly carcinogenic to humans) to Group 1A (carcinogenic to humans) in March 2017. The International Institute of Welding through its Commission VIII experts is evaluating the IARC’s findings.

Welding generates metal particulates and noxious gases including ozone, nitrogen oxides and carbon monoxide. The types of fumes produced and the amount depend on the welding process in use and the type of material being welded. Welding metals, solvents, flux, plastics or paint all produce different gases, and while some of the fumes are visible to the eye, many are invisible but real.

**PPE is key**
As with the other occupational hazards of welding, employers and employees can minimise the risk of inhaling welding fumes and airborne contaminants by using approved PPE. Welders can wear a welding helmet equipped with an appropriate air ventilation system to protect themselves from toxic fumes and airborne contaminants. Respirator systems used by welders are officially graded by the protection level they offer the wearer, ie, the level to which they exclude the contaminated air found in the welding environment.

This classification rates the efficiency of the filtering system and the total measured combined leakage rating of the respirator system, which is called the Total Inward Leakage (TIL) performance rating. Helmets with respirators can help protect welders from airborne fumes and particulates to help minimise the risk of lung diseases. Therefore, while the hazards of welding cannot be ignored, they can be effectively managed through approved PPE and the correct procedures to ensure a safe welding environment.

*© stock.adobe.com.au/Andrey Burmakin*
The Ideal Solution for Preventing Costly Accidents in Slippery Areas

Advance Anti-Slip Surfaces is the foremost Australian owned manufacturer and supplier of a range of Class One Metal Backed antislip safety products and nonslip self-adhesive tapes.

These anti-slip stair nosing, ladder rung cover and safety floor plate products are used primarily in the mining, petrochemical, construction, manufacturing and engineering industries to solve problems relating to slips, stumbles, trips, tumbles, topples and falls on stairs, steps, landings, platforms, entranceways, ramps, walkways and ladders.

Our non-slip products comply with national and international compliance requirements for quality, performance and safety, backed by an extensive warranty.

Let every step you take be a safe one with Advance Anti-Slip Surfaces!

P: +61 3 9560 4488  E: sales@advanceantislip.com
www.advanceantislip.com
Vibrating fork, paddle, vibrating rod and capacitance switches

Emerson’s range of Rosemount solids level switches are designed to enhance operations, increase safety and reduce waste by providing reliable point level monitoring and supporting overfill prevention.

The vibrating fork, paddle, vibrating rod and capacitance switches provide monitoring of solid materials, such as powders, grains and pellets in all silo types. The switches are suitable for a range of industries, including food and beverage, agriculture, chemical, power, cement, mining and plastics. The compact switches require minimal maintenance and can be operated in challenging environments, including those with high temperatures, high pressures, dust and risk of explosion, as the switches have been certified by the European Commission ATEX (Atmosphères Explosibles).

The switches can provide standalone point level monitoring to help optimise filling and emptying cycles, and can also be deployed within an overfill prevention system, to prevent wasted materials, environmental impact and damage to the silo. The Rosemount 2511 and 2521 vibrating fork switches are suitable for applications involving light, fine-grained and powdered materials.

All wetted parts of the switch are made from corrosion-resistant stainless steel, making them suitable for hygienic applications. The 2501 rotary paddle switch can be used as a full, demand or empty detector in storage silos or process vessels, as the paddle design can withstand heavy loads and temperatures up to 1100°C. The capacitance switch can be installed in pipes as a limit switch and spillage detector, while the 2535 vibrating rod switch provides high chemical resistance due to its food-grade stainless steel design.

Emerson Automation Solutions
www.emerson.com/au/automation
See-through polycarbonates offer machinery and structural safeguarding benefits for the manufacturing sector. Strong yet lightweight, plastics such as Wearguard polycarbonates can be used in place of metals and offer protection against common hazards. The adoption of transparent and tough plastics has the added benefit of facilitating high visibility of manufacturing processes, and is suited to industrial machinery retrofits, updates and new technology installations.

“As the pace of industrial change accelerates, employers have a commensurate obligation to update their risk management plans in accordance with recognised Safe Work codes and employer duties of care,” Laurie Green, Managing Director of Cut To Size Plastics, said. The use of see-through protective materials is in line with these changing needs, and especially applicable to industries that employ new technology as well as workplaces that centre around high-speed production, distribution and maintenance, as is the case in manufacturing.

Such environments pose particular hazards to workers that include impact and other injuries that may result from contact with moving parts, together with proximity to electrical, heat and chemical processes, all of which can often require shielding. These are hazards that extend beyond manufacturing to also encompass mineral processing and bulk materials handling, metals fabrication, construction, architectural materials, manufacturing, and food and beverage processing, packaging and distribution, according to Green.

Green advocates Wearguard polycarbonate as a future-focused material that has a number of safety features that could help shield workers from the hazards they face during their duties. Such features include impact resistance performance and shock load resistance, which is many times that of acrylic clear sheet, according to Green. Green also suggests that the see-through safety quality of this material makes it suited to indoor and outdoor glazing and protective applications that would, until recent years, have required the use of metal or a similar material.

Some of the many applications of see-through polycarbonate screening include: in viewing and protective paneling; as machine guards; in cabin panels on heavy machinery or side screening for materials handling machinery, such as forklifts; on expressway acoustic panels; as anti-vandalism or security glazing; on skylights or on sign faces; in marine environments, such as for vessel windows; and as sight glass tubes for observation in industrial settings.

In addition to providing high visibility commensurate with thickness, such polycarbonates also offer high heat resistance — with certain products offering a melting point of 150°C. The Wearguard polycarbonate also have the benefit of not being influenced by sudden humidity and temperature changes, and offer dimensional stability, being readily machined by bending, cutting or drilling.

Cut To Size Plastics Pty Ltd
www.cuttosize.com.au
Portable blower extractors

Fanquip’s portable blower/extractor range supplies clean air and removes toxic fumes; it is also suitable for air pressure supply units, confined space ventilators and general air flow maintenance duties. Manufactured in electric drive and petrol drive versions for greater applicability across industries, the units can be used to ventilate confined spaces with a continuous supply of fresh air. The units can also be used for ‘point of generation’ extraction of welding fumes, exhaust smoke from automobiles, vapour and noxious gases.

Electric-powered units have a motor speed of 1880 rpm and are available in 160 or 200 mm diameters, each of which comes in 1 Ph 240 V or 3 Ph 415 V models. The 160 mm diameter model has a 0.55 kW power operation, capable of moving 450 L/s of air. All 200 mm diameter models have 1.50 kW power and move 890 L/s of air.

The units provide a better working environment for manufacturing and engineering workshops that struggle with welding fumes, by channelling air into a capture hood. The units can also be used by council maintenance crews for sewer ventilation during routine or emergency works. All Fanquip portable blower extractors are supplied with a capture hood and 5 m of flexible ducting, with additional lengths of ducting available.

The unit’s motors are mounted on lightweight steel/alloy bases, to provide strength and rigidity. The blower snail case is moulded from impact-resistant polyethylene, with matching inlet and outlets. The heavy-duty forward curved centrifugal impeller provides consistent airflow under the load, with an extra moulded plastic capture hood supplied to increase the extraction area.

Fanquip
www.fanquip.com.au

Men’s and ladies’ work boots

Australian work boot supplier Steel Blue has launched the Hobart Sand boot, suitable for men and women. The Hobart captures the classic Australian work boot and is one of the original style in the Steel Blue range. Steel Blue has brought together this classic work boot with a sand colour, providing more choice for all tradies.

The Sand range comes in four men’s and three ladies’ styles with options to suit a wide range of tradies. The Sand boots feature pull on for easy on and off, with a 200 J safety steel toecap and an antistatic TPU outsole that is heat resistant to 130°C. The boots also feature water-resistant leather.


The company’s full range of boots for women are designed with a shorter ankle length and smaller step. The Southern Cross Ladies and Hobart sand are suitable for industries such as construction, agriculture, mining and general trades.

Steel Blue claims that all its safety boots are endorsed by the Australian Physiotherapy Association.

Steel Blue
www.steelblue.com.au

---

T5 Safety Suite

The most comprehensive, economical safety solution on the market, at $5.00 per user with no ongoing costs and free updates.

• 5 reporting apps in one
• Time and date stamped
• Location
• Accurate reporting, with email and CSV
• Quick and easy to use
• Change risk and hierarchy graphics
• Add your logo

https://take5apps.com.au

We can customise the App to your requirements.

---

This issue is sponsored by — Blackwoods — www.blackwoods.com.au
Forklifts perform a vital function in warehouses across Australia, yet collisions with pallet racking within these settings also cost the storage operations sector tens, if not hundreds, of thousands of dollars per year. Rack Armour aims to offer a "simple superior solution to pallet racking protection", Karen Varian of Rack Armour Australia (RAA) said. This pallet racking protection solution features a shock deflector that is made from a tough polymer designed to withstand significant impact. A feature of the armour is its persistence of shape, which is intended to provide ongoing protection as the unit reverts back into its original form, with curved edges that deflect the impact away from the rack face.

Rack Armour includes an inner foam that acts as a shock diffuser, reducing inertia from any impact and diffusing the force along the whole length of the unit. Any residual impact is therefore dissipated over a larger area, making it less likely to cause damage to upright racking. The solution is Australian made and has undergone independent engineered testing. Such testing was performed to validate the energy absorption characteristics of Rack Armour when subjected to an unintentional impact from a forklift. RAA’s intention is to provide customers with a product that contributes to providing a safe work environment, protecting staff as well as company assets.

The pallet racking solution is designed to provide ongoing protection in both dry and cool room storage environments, meaning it is effective to the majority, if not all, of warehousing applications. It is claimed to be resistant to acid, alkali, mould and most solvents, will not rust or corrode, and is effective down to -40 degrees Celsius. “It has been a great experience seeing the difference the Rack Armour product has made,” Karen said, “providing relief to customers in ongoing costs of repairs and maintenance due to rack damage caused by forklift operation. The amount of companies throughout Australia who are unaware that there is an alternative to traditional pallet racking protectors is concerning. If a product or application is not performing to the customer’s expectations, they should endeavour to source one that does, and that is where Rack Armour can certainly help.”

Rack Armour is manufactured from materials that include ballistic grade 100% polymer, which allows it to revert back to its original form after impact. It also complies with the relevant Australian Standard — AS 4084-2012 Steel storage racking (Clause 2.4.1) — which states that “accidental actions are defined as impact actions which are more severe than those which occur under ordinary ‘good practice’ operating conditions”. Installing Rack Armour on intermediate pallet racking uprights throughout a facility, RAA claims, mitigates damage caused by forklift impacts. In turn, it is also claimed that this minimises the likelihood of falling pallet racking, damaged uprights, bay downtime, as well as ongoing costs to maintain a safe work environment.

RAA is based in Chipping Norton, New South Wales, and has a growing network of resellers throughout Australia. The company exports to New Zealand and South East Asia.

Rack Armour Australia Pty Ltd
www.rackarmour.com.au
Shock-absorbing lanyards
The V-SERIES shock-absorbing lanyard line simplifies product selection by offering a concise line of standard lanyards that meet a wide range of customer needs. Reduce snag and trip hazards and increase worker flexibility with the stretch style webbing.

These lightweight safety lanyards not only limit force on the body in a fall, but also on the anchor location. The shock-absorbing pouch and additional cover on the energy absorber includes a clear, durable protective cover on the labels to increase service life, protection of label and allow for easy inspection.

Its lightweight and streamlined design offers complete protection while keeping arrest forces below AS/NZS limits. Features a new easy identifiable symbol system to indicate the type of lanyard and a choice of single- or twin-leg configurations is available too. MSA also offers the Standard Adjustable Lanyard with Energy Absorber to complete its new V-SERIES Lanyard product line.

MSA Australia Pty Ltd
au.msasafety.com

Handheld CO exhaust analyser
The Monoxor XR is a portable exhaust gas analyser designed to measure high CO from forklifts and other combustion engines for OSHA compliances testing. The analyser enables users to view and save CO readings in real time from the numerical or graphical display screens. It is available with pre-calibrated, B-Smart sensors to reduce downtime and maintenance costs. The analyser is compatible with the company’s Combustion App (available for Android and iOS) allowing users to create and share custom reports.

The analyser can measure CO in ambient air and exhaust gas from engines up to 80,000 ppm with an automatic CO alarm. Its flexible exhaust probe enables hands-free sampling from exhaust pipes, while the mobile app allows users to create and share customisable emissions reports. The analyser features an IrDA printer that allows technicians to reproduce combustion and emissions reports in the field, and Type K thermocouple input for temperature measurement. The product does not require calibration gas and also enables easy B-Smart sensor replacement in the field, to reduce downtime.

System Control Engineering Pty Ltd
www.systemcontrol.com.au

System Control Engineering Pty Ltd
www.systemcontrol.com.au

MSA Australia Pty Ltd
au.msasafety.com

Contact us today to receive tailored advice on how you can participate at Safety in Action 2021
P: 02 9080 4143 | E: Josko.Kazija@informa.com | W: www.safetyinaction.net.au

This issue is sponsored by — Blackwoods — www.blackwoods.com.au
**Dropped tool prevention system**
The Stronghold Quick-Switch Tool Tether System from Pure Safety Group prevents the dropping of objects during work at height. The system is based on the Quick-Switch design, which allows workers to switch tools from one connection point to another in a single motion. The system keeps tools connected when they are transferred or handed off and allow users to carry, manage and use tools at height, protecting people and property below.

The system allows workers to use multiple tools at their work areas and switch tools, all while keeping them connected through a combination of keys, links and anchors. Keys allow the use and manipulation of the tools, while the links allow the switching of locations of the tools. Anchors are the points that support the tool in the event of a drop. Components of the system include a Quick-Switch starter pack with four links, one bungee tether and one wrist cuff. The system also includes a Quick-Switch link and dock that allows links to be paired with tools (each link comes with its own dock).

The system also features a wrist cuff, bungee tether, retracting tether (for retractable applications), apron (for use over handrails and railings), rotating dock (the anchor points for the Quick-Switch system that can be used on pouches and tool pockets), tethered tool bucket and bolt bag, and a tool holder to contain anchors. The products also meet OSHA and ANSI standards for drop prevention.

*Pure Safety Group*
www.puresafetygroup.com

---

**Prescription safety frames**
Ugly Fish provides innovative, fashionable and high-quality prescription safety frames catering to both male and female users, suitable for professional and outdoor environments. The range of frames is designed to provide comfort and functionality, with Twister and Whirlwind models available. The Cannon, Warhead and Sparkie models have also been added to the range.

The Cannon and Warhead models feature replaceable dust seals for added protection against the elements and harsh working conditions. Both models have an adjustable, detachable strap, allowing a firmer fit when required. By having shorter, flexible and rounded temple tips, the frames are particularly suited to workers needing to use hard-hats and/or earmuffs. All detachable parts are also available as spare parts, allowing the user to maximise the longevity of the product and maintain an optimum level of protection and functionality at all times.

The Sparkie model offers a flat front with a fashionable, unisex plastic frame with no metal parts. The short temple design also provides better fitting with earmuffs or under helmets. The Sparkie, Cannon and Warhead models are available in various frame colours through PSG Eyewear.

*PSG Eyewear Australia*
www.psgeyewear.com.au
Handheld spectrometer

The Serstech Arx+ handheld Raman spectrometer from SciTech is packed with new features, simplifying the workflow when verifying substances at incoming goods inspection. The spectrometer features SharpEye, an autofocus technology that improves signal quality. With new and powerful algorithms, Serstech Arx+ is designed to provide precise results for single substances and complex mixtures.

Compliant with Title 21 CFR part 11, the spectrometer is equipped with an integrated barcode reader which enables users to tie a measurement to a container by scanning barcodes or QR codes. Specifically developed for the pharma industry.

The UX. Serstech Arx+ is built on a modern software platform, putting usability and algorithms in focus. The graphical user interface is easy to navigate and features such as Guided Scan and the Quick Access feature allow users to get precise results, faster. The algorithms provide fast and precise identifications of pure samples and complex mixes of substances. The results are presented in a simple way, for ease of interpretation and use.

Serstech Arx+ is lighter and smaller compared to previous Serstech models. The spectrometer enables users to focus on what is important and make decisions based on reliable measurement results.

The product is easy to understand and provides responses in seconds. It can be connected wirelessly or via cable to ChemDash for reporting and management of users, measurements and libraries. The spectrometer is also designed to provide an efficient workflow.

SciTech Pty Ltd
www.scitech.com.au

Air purification photohydroionisation (PHI) cells

RGF & Airius have developed a range of PureAir photohydroionisation (PHI) cells that can be inserted into Airius fans or retrofitted into every existing air conditioner, including split, ducted and packaged units. The Air Purification technology acts as a protective measure against SARS (severe acute respiratory syndrome) and is now a simple and effective way to get back to business.

The PureAir solution has been tested and proven to kill 99% of surface and 97% of airborne viruses, mould and bacteria. To help businesses cope with the coronavirus (COVID-19) pandemic, an Air Purification cell can be retrofitted to an existing air conditioner. Installation takes approximately 30 min. PureAir (PHI) Cells are designed to be a simple and cost-effective way to keep the world at work rather than in quarantine.

Airius
www.airius.com.au

Scaffold anti-tamper assembly

Scaffshield is a patented, anti-tamper assembly that can be applied to scaffold couplers and node points to stop unauthorised loosening or removal or scaffold ties, ledgers, hop-ups, ladder beams and stairs. Scaffshield reduces scaffold tampering and the risk of scaffold incidents leading to disruptions, injuries or fatalities.

The Scaffshield assembly is comprised of a nut within a free-spinning outer sleeve, which is installed on a typical scaffold coupler t-bolt using a custom manufactured Scaffkey. The free-spinning sleeve is screwed down to sit over the coupler nut, preventing any standard shifting tool from loosening the coupler nut. A Scaffkey is used to install and remove the Scaffshield over the coupler nut. Scaffkeys are numbered and leased via a controlled register, are only available to site authorised supervisors and cannot be copied or purchased.

Installation is simple and non-intrusive, allowing for the scaffold to be erected first, with Scaffshield installation to follow, or be easily retrofitted. A single Scaffshield unit can be installed within 10–15 s over the existing scaffold coupler and coupler nut. Scaffshield provides control to scaffold supervisors, site and safety managers as to when and how components are removed for ease of work or during dismantling of the scaffold itself.

ScaffShield
www.scaffshield.com
Emergency Services uniforms are more than just the brand name, distinct colours and strips of reflective tape. They are the vehicle that will keep front line workers safe, which is paramount to ensuring they make it home to their families after a hard day at work. And this is why the end-wearer is at the core of everything we do at Workwear Group.

Workwear Group has accumulated over 30 years’ experience servicing the Emergency Services sector. With industry leading design, product and service expertise, Workwear Group tailor solutions to meet each of our Emergency partners’ unique requirements.

In order to service our clients, we have in-house design, fabric and garment experts that search the globe to find the latest and greatest in uniform solutions for the front line and adapt these to our clients’ unique requirements.

One of our latest innovation projects is the development of fire retardant ensembles to enhance our new Wildlands range and a structural fireboot, offering a head to toe solution. Head Industrial designer Louise Davis says, “The development was driven from what we were seeing in the market for Non-Fire Retardant traditional workwear.”

Coming back to the Workwear Group headquarters based in Port Melbourne, the team worked back with current clients to establish what were the most important factors when wearing their uniform, in particular the Wildlands range.

Davis continues, “After talking with a number of clients, it was clear that next-to-skin comfort is an absolute must, with the ability to have full range of movement. We’ve taken a total system integration approach to the designs.” With this in mind, our design team and technicians went to work to develop the necessary features and benefits for a Wildlands range.

Underpinned by Wesfarmers, Workwear Group strive to meet the strict guidelines set by local and international bodies, and as part of the development process of the ensembles and fireboot, rigorous testing has commenced in Australia, New Zealand and Europe.

Features of the Fire Retardant Wildlands Compliant Ensembles:
- Inherently FR fibre blends engineered to maximise protection as well as comfort
- Articulated patterning and adjustability for perfect fit and full range of movement
- Smart storage and equipment integration
- Durable trims and construction
- Certified to AS/NZS 4824:2006 Standard for Protective Clothing Worn During Wildland Fire Fighting Activities
- Gold, Lime, Green colourways

Vicky Wynn-Williams, Head of Merchandising Uniforms comments, “With the development of the Wildlands ensembles, we have introduced smarter fabrics and trims, as well as further enhancing the fit and reducing the weight of the garments resulting in minimizing fatigue on the wearer. As a business that values Safety First, this ticks all the boxes.”

To support our offering of a uniform solution from head to toe, the fireboot in development, HERO 365 is certified to the Structural fireboot standards: AS/NZS4821:201, EN1509, EN ISO 20345:2011 H13

Not only do we believe this boot has a great aesthetic, it will stand up amongst its competitors with some truly unique features:
- Genuine YKK® zippers 10 gauge
- Waterproof internal bootie and uppers
- Flame stop leather, threads and trims
- Wellmax™ puncture proof plate
- Cosmo and Graphene comfort high vis lining (Graphene is stronger than Steel)
- 3M reflective trims
- Composite cap
- High density Eva heel and internal padding
- YKK® Front zipper (removable if not wanted)
- An additional inside zipper for easy on off
- High Vis rubber heel Bumper
- Rubber toe bumper
- Extra large zipper pull tabs for easy pull whilst wearing gloves
- Front and back double pull loops for easy pull on
- Memory Foam footbed with Energy rebound heel pods
- Weight currently on par with our competitors
- 300° heat resistant rubber direct injected outsole
- Anti-Static
- EEE wide fit last

Workwear Group is still in the development phase of these products, with an aim to make them available to clients early 2021. If you are interested in learning more about this product or other innovation products that are in development, please visit our website for more information or contact us on enquiry@workweargroup.com.au.

Workwear Group is a wholly-owned subsidiary of Wesfarmers (ASX Top 20) group of companies.

Workwear Group
www.workweargroup.com.au
Queensland Fire and Emergency Services (QFES) is using cutting-edge technology, including virtual reality, augmented reality and 360-video, as key parts of its training programs, to ensure it continues to lead the way in emergency response. "Queenslanders should know their fire and emergency services personnel are not only expertly trained but also are some of the world’s most progressive and are leaving no stone unturned when it comes to protecting the people of this state," said Joanne Pease, Member of Parliament for Lytton. "It’s great QFES has recognised the possibilities of these emerging technologies and has worked hard to ensure they will benefit communities right across this state."

Fire and Emergency Services Minister Craig Crawford said extended reality had benefits that traditional training approaches were unable to match. "Apart from being cost-effective, this technology helps us to bridge distances to more readily educate and train staff and volunteers, particularly those in regional or remote areas," Crawford said. "This means, for example, we can have one of our leading firefighting instructors at the School of Fire and Emergency Services in Brisbane delivering an incident response program through virtual reality headsets to crews in classrooms at locations anywhere in the state."

The virtual environment enables the instructor to highlight key incident details and response techniques, and provide real-time coaching to ensure best results in the field when crews respond to actual incidents. To develop the digital training programs, QFES teamed up with the Queensland University of Technology (QUT) and Deakin University. These partnerships enabled QFES to access advances in the technology as they developed.

QFES Commissioner Greg Leach said the program would continue its rapid progress over coming months. "We have, in the past few days, rolled out 360-degree video training to an intake of new firefighter recruits, which is an Australian first as far as we are aware," Leach said. "This ensures the recruits have a good base of knowledge and skills they can draw on when they progress to live-fire environments and it reduces some of the risks and costs involved in the early stages of their development."

The unit is also currently working on training packaging focused on firefighting aircraft — an important addition to modern bushfire response techniques and a growing part of operations going forward. QFES has also been developing programs around storm and severe weather event response, to use them to assist with training and community education.
Viraclean® is your best Infection Prevention defence against SARS-CoV-2 (COVID-19) present on workplace surfaces.

Ideal for disinfecting high touch areas in the workplace. Viraclean® is the result of years of intensive research into advanced cleaning and disinfecting technology from Whiteley Corporation. Viraclean® is pH neutral with excellent materials compatibility.

Viraclean® is proven to kill a range of bacteria and viruses including:
- Coronaviruses including SARS-CoV-2 (COVID-19)
- Escherichia coli (E.coli)
- Hepatitis B Group virus
- Herpes Simplex virus
- Influenza virus
- Salmonella choleraesuis
- Staphylococcus aureus (MRSA or Golden Staph)

Proudly manufactured in Australia

For more information please call 1800 833 566, email marketing@whiteley.com.au or visit our website www.whiteley.com.au/prevent-the-spread-of-infection

For more information about Whiteley Corporation products visit www.whiteley.com.au or call the Product Support Hotline on 1800 833 566

© Registered Trademark Whiteley Corporation Pty Ltd © 2020
Simplicity.

One-piece silicone mask body
Single-sling head harness
Accepts all Sundström filters
Connects to supplied air
Change valves in seconds
Easy wipe-and-clean
No-fuss machine wash
No complicated assembly

sea.com.au
SEA.Enquiries@sea.com.au
+61 2 9910 7500
1800 655 129

BUY A PRODUCT
GET A SYSTEM