

AUG/SEP 2016  
Vol.14 No.3

# safety

## solutions

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at work

**Lone worker safety**  
more than just talk!

pp 100007391

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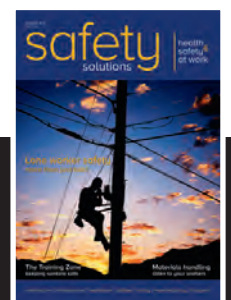
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# WORDS FROM THE EDITOR



**Thank you to everyone who participated in our recent reader survey. Your feedback is appreciated and we will endeavour to incorporate your requests within our 'new look' magazine.**

We have now introduced The Training Zone, which details some of the upcoming safety-related training available across the country. There will be a dedicated feature in each issue of the magazine (see page 52), and further details will also be available on our website at: [www.safetysolutions.net.au/training-zone](http://www.safetysolutions.net.au/training-zone).

Putting the H back into Workplace Health and Safety, our 'new look' also features information on health and wellbeing for workers in the workplace. A regular feature will include the Wellbeing column (see page 54).

We will, of course, maintain our key focus on workplace safety with details on the latest products and solutions available.

This issue features how the humble radio has become a valued tool in managing lone worker safety using application technology. Our 'legally speaking' article provides further information on a recent WHS conviction. We also take a look at the use of defibrillators in the workplace and ask: what would you do if someone had a 'sudden cardiac arrest' at your worksite?

Mental health and wellbeing will be a feature at the upcoming Safety in Action event in Sydney on 6–8 September. Included on page 46 is a preview about the event and a selection of some of the products on show.

If you are planning on visiting the event, please drop in for a chat at our Safety Solutions stand.

**Carolyn Jackson**  
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# MORE THAN JUST TALK

## RADIO APPS IMPROVING SAFETY







The humble 'walkie talkie' has grown into a full-featured, digital device using advanced business apps that extend its value for safety, productivity and efficiency.

**D**igital mobile radio (DMR) apps allow radio users to do more than just communicate with each other. With hundreds of compatible business apps now available for DMR handsets, users can connect to their smartphones, find the best route to a worksite, check their job tickets, raise an alarm, monitor their health, locate their co-workers, track sensitive equipment and even exchange information with other users on completely different private and commercial networks.

#### **SAFETY AND SECURITY**

The advent of app-enabled DMR is extending the benefits of digital communication to companies for which safety and security is the number one priority. This is particularly pertinent for companies that have lone workers in isolated locations for extended periods of time.

'Man down' apps can save lives by giving organisations immediate recourse with minimal — even zero — user intervention. When a DMR radio is tipped past 45° for 90 seconds — implying that a user is down, incapacitated or injured — an alarm is triggered. The GPS tracking system then sends a link to headquarters using a mapping application that pinpoints exactly where the user is located.

Kerran Deihl manages and monitors the transfer of fuel products between the port, storage facilities, trucks and service stations for New Zealand Oil Services. "Due to the nature of our products, we avoid people working alone as much as possible, but if they have to, we want the control room to be instantly notified of anything unusual," said Deihl.

"We're trialling the man-down system, activated by the balance switch or lack of activity. We're also looking into GPS for staff locations, as well as direct dial-out to emergency services."

User inactivity can also be an indicator of potential incapacitation of a worker. This is why many companies that have staff working

alone and in remote locations now rely on the 'Lone Worker' application. If the worker fails to interact with the radio within a preset period of time, a pre-warning tone will sound. This signals that it's time for the user to reset the timer by using the radio in some way — for example, by pressing a button or adjusting the volume. If the user still fails to interact with the radio, an emergency call will be initiated back to headquarters.

Jeremy Hayes of New Zealand logging company DH Logging explained how the lone worker app is now being applied in his workplace.

"Tree fellers often work on opposite sides of a hill, unseen by anyone," he said.

"Previously they had to call in every 30 minutes, but now the radio starts an alert tone at 27 minutes. If they don't call in within two minutes, an emergency beacon is sent to the whole crew. Workers can get on with the job without worrying about keeping track of time, yet they're still monitored for safety in the lone-worker situation."

This application, when combined with the two-way radio's in-built GPS system, can identify where an injured lone worker is to within a metre by triangulating its position from GPS satellite beacons.

Using voice call recording inherent to its DMR system, companies can also monitor employees and work practices for their adherence to safe working practices. This can be of importance especially after an incident where the existence (or not) of adequate safety measures may be called into question.

"We record all voice calls, which is essential for any incident analysis," said Hayes. "Where trees are dragged up the flying-fox system we have colour-coded zones to determine where workers should stand. We can record employees as they change zones and are considering GPS tracking functionality on the handhelds to ensure that employees are the correct distance away from the working ropes."

The benefits of safety and security apps aren't limited to larger sites. Mundtville





Dairy Farm, an independent family-owned business that supplies milk to Synlait, recently installed a new DMR radio system for its 12 staff who travel over the 536-hectare site, as the mobile service can be patchy and unreliable.

"We recently had an incident where a staff member fell off a motorbike and broke his leg," explained the general manager, David Sloss. "He called us via the radio, we got to him within minutes, took him to the medical centre and he was airlifted to Christchurch. It's difficult to say what might have happened without the radio — someone might have driven past within minutes. But the next scheduled trip that way wasn't until 2 pm so it could potentially have been hours before he was discovered."

### **BETTER EFFICIENCY AND ACCOUNTABILITY**

For delivery company Wentworth Carrying, using DMR apps has improved business efficiency in a number of ways.

"The [new DMR] system has lightened the workload of the drivers," said owner-operator Angela Chambers. "I can guide a driver to the destination over the radio if need be, rather than having the driver pull over to use the map."

"This system is definitely more efficient and the cost savings are across the board. We've not only saved on mobile phone costs, we save time, which is a big factor, by making everything quicker and easier. A job which used to take one hour now takes nowhere near that time. It's hard to put a monetary amount on the value because there's so much time saved as well."

At the University of Canberra, DMR has not only solved an age-old problem of

radio black spots on campus, but extended functionality well beyond one-to-one communications.

"We know which staff member is calling even if they can't speak for some reason," said Vittorio Cox, manager, security, traffic and concierge, estate management. "Using GPS we can establish how effective patrols are and how busy staff are. We learned that staff do up to 16 kilometres per shift, so now we can manage fatigue and work out how many shifts per week is too many. What was potentially a long-term employment issue can be more effectively managed."

### **THE LAST WORD**

While business productivity and efficiency apps are still largely accessed through consumer-grade devices, a new generation of DMR radio is today making it possible for companies to leverage their existing



*The advent of app-enabled DMR is extending the benefits of digital communication to companies for which safety and security is the number one priority.*



investments in digital radio to complement their use of multiple devices in the workplace.

The convergence of voice and data communications on enterprise-grade radio handsets has also greatly benefitted the functionality for which radios are prioritised: safety and security. It's the combination of enhanced security features and business value-add that makes DMR so compelling for so many companies in a growing number of industries.

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## FAMILY BUSINESS REDUCES ITS WHS PAPERWORK TO ONE PIECE OF PAPER

Francene and Michael Mountford of Mountford Plumbing Services have been in business for over 30 years. As a commercial, industrial maintenance business, they do a lot of work with local government and industrial businesses, so in Francene's own words: "WHS had to be first, with everything else after that."

Mountford Plumbing adopted the Donesafe WHS management platform seven months ago to help them deal with the mounting complexity of safety management.

"We used to be completely paper driven with a bit of management through Excel... We were literally running out of paper. We filled out our 12-page Safe Work Method Statements (SWMS) every time we had a high-risk job — every time we even looked at a roof we had to fill one out."

Francene had been looking for affordable WHS app solutions for years to help her manage the administration of the business.

"I'm a one-person office, and it was not easy to get information to the customer. You'd be scanning and printing — it was just so cumbersome. It was too much when you had to consider all the other paperwork that we needed just for the day-to-day."

Since adopting the Donesafe WHS compliance software, however, she's been able to systemise and automate large amounts of her WHS management process.

"We've phased all paper out, bar one A4 piece of paper. It's so much easier. We don't have to carry physical manuals, our code of practice or safe work method statements with us anymore. We used to have big plastic crates with all of our materials in them in every van. It's so much easier to have all of the information at our fingertips."



Francene has also found that switching to a software WHS management system has helped keep her team safe, while adding a great deal to their brand.

"We had a university job and the boys were able to fill out the SWMS right in front of the customer on their iPad. They got the client's email address and it was instantly sent to his phone. The client was really impressed with us; it made us efficient. I'm actually upgrading our advertising at the moment and I will be focusing on having Donesafe as one of our attributes."

Francene and Michael are now looking towards the future and growing the business. They're now developing the QA and environment aspects of their business in Donesafe in order to get accredited and gain some government work. With a sizeable reduction in paperwork and admin, Francene is now in a position to start investing in the business again.

"At one stage, all we were doing was paperwork. Now we can concentrate more on marketing and getting more customers rather than being bogged down with admin. That's a really important thing. We're trying to focus on the future because of our son. We want to make sure that the business is there for him."

"Donesafe is the complete package regarding ease of operations. We don't miss or lose any information because it's in the cloud and easy to edit in the app. Donesafe is comprehensive and a massive time saver."

Donesafe is an end-to-end OHS safety software system that automates health and safety management. It's cloud based, jargon-free and works seamlessly whether you're on a computer, a tablet or a smartphone. To learn more about Donesafe, visit [www.donesafe.com](http://www.donesafe.com).

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The VideoBadge series from Edesix consists of easy-to-use, robust and secure body worn cameras (BWC), capable of efficiently recording evidence-ready HD video and audio footage. Together with Edesix's custom-developed VideoManager software, the BWCs are designed to provide frontline workers with the capability to deter aggression, capture evidential footage and store and share data from a multitude of locations.

The series consists of the VideoBadge VB-100, VB-200 and VB-300. Often styled as an ID holder, the BWCs are suitable for frontline workers. Each badge is fully encrypted, has day and night recording capability along with a comprehensive audit trail, ensuring evidential footage is protected from camera to court.

The VB-300 series is the first generation of Wi-Fi-enabled VideoBadge. This BWC is equipped with the same security and footage protection features found in the VB-100 and VB-200, but with increased memory capacity, longer battery life and a wider field of view. The Wi-Fi feature enables the VB-300 series cameras to stream video and audio to VideoManager while simultaneously storing evidential quality recordings for later download and review.

The Edesix VB-300 can also be integrated with a user's static CCTV, providing a comprehensive view of a facility — be that an airport, warehouse, supermarket or shopping complex. It provides real-time, ground-level audio and video footage to complement a user's existing CCTV footage and to help protect staff.

*Edesix Ltd*

[www.edesix.com](http://www.edesix.com)

## Full-body harness

Capital Safety has released a redesigned and upgraded 3M Protecta PRO Full-Body Harness Range for fall protection. The redesign incorporates comfort and safety elements such as subpelvic straps for everyday use by professionals in a range of industrial applications, such as general construction or tower work.



The range offers eight models, including a specialist scaffolder's harness which comes with an integral 'Fall Protection for Tools' belt to provide a complete drop prevention system. This specialist model allows users to safely climb and work from scaffolds and ladders, and minimises the risk of falling object incidents that result in personal injury, equipment damage and tool loss. Several models also include elasticated or adjustable integral lanyards and scaffold or snap hooks.

The design incorporates lighter hardware and improved adjustability to provide a suitable fit for any worker. The range is certified to AS/NZS 1891.1.

*Capital Safety - a 3M company*

[www.capitalsafety.com.au](http://www.capitalsafety.com.au)

## Emergency wash system

The Enware emergency wash system is designed to offer initial first-aid treatment for hazardous contaminant events. It is suitable for mining, petrochemical, oil refinery, chemical manufacturing, handling and storage applications, as well as laboratories and hospitals.

Medical and industrial experiences have shown that it is essential to wash a contaminated part of the body as soon as possible. Deluging water flow and ease of use provide optimal functionality, making the wash system beneficial for minimising the effects of an injury. It features a durable stainless steel construction and yellow powder-coated activation points, which provide high visibility for quick action in the event of an emergency.

The self-draining shower has also been designed to minimise the risk of bacteria growth, particularly in tepid water applications. The system is certified to Australian Standard AS4775 and ANSI Z358.1.

*Enware Australia Pty Ltd*

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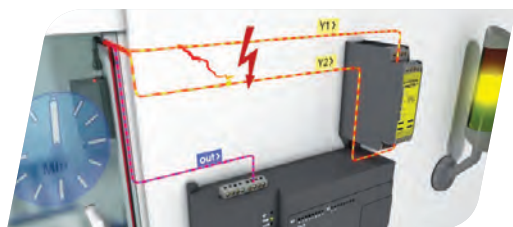




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## Slip-resistant footwear range

Designed to help reduce the incidence of slips in the workplace, the MACK Traction Control range of slip-resistant occupational footwear exceeds the Australian standard by 122% (AS/NZS 2210.5).

The range is designed on the movement of the foot while walking, to maximise ground contact area through each phase of the gait cycle. The tread pattern also has a unique design based on foot loading patterns and hydrodynamics to optimise fluid dispersion from the shoe-ground interface, which is paramount to reducing slips. It is claimed that the engineering features of the range result in it outperforming the market-leading brand in the UK and USA on the critical heel-slip test component of the standard.



Consisting of five styles of safety and non-safety footwear, the range is suitable for industrial, cleaning, hospitality and healthcare applications.

The range is available from Safety HQ stores, which have experienced workers who can help to provide advice and solutions when it comes to slip and trip hazards and other safety issues.

*Safety Headquarters Pty Ltd*  
[www.safetyheadquarters.com.au](http://www.safetyheadquarters.com.au)

## Open grid step nosing

Amco has released a new version of its U-Tred nosing for open grid steps. The U-Tred Series II nosing can be used on the edges of these step types to improve safety for heavily trafficked areas, especially in wet or oily environments. The nosings, which feature mineral industry standard gridmesh patterns of 50 and 100 mm centres, are suitable for a range of industries including mining, construction and agricultural industries.

Featuring double-action anti-slip cleats for extra grip, the product is manufactured from high-strength galvanised steel, providing a hardwearing step. It is also easily installed since there are no bolts, nuts or fasteners required. Two self-locking barbs provide quick and secure installation in 25 x 5 mm and 32 x 5 mm step edges.

For increased visibility, the treads are powder coated in a bright safety yellow. Unlike fibreglass stair treads, the product will not crack or release hazardous splinters. U-Tred comes in the one size: 85 x 40 mm.

*Amco*

[www.amco.net.au](http://www.amco.net.au)



## Multihazard protection fabric

Nomex MHP is a multihazard fabric from DuPont that has been developed and tested for Australia and New Zealand. It provides workers with multihazard protection against heat, flame and electric arcs.

There are two fabric styles, Nomex MHP 160 and Nomex MHP 185, weighing just 160 and 185 g/m<sup>2</sup> respectively. These fabrics are lightweight and comfortable for workers.

Even though the fabrics are lighter weight, they still provide good body burn protection. For instance, Nomex MHP 185 fabric has only 17% body burn, which far exceeds the NFPA 2112 standard of ≤50% body burn.

The combination of Nomex and Kevlar fibres within this fabric also ensures a strong and durable performance, providing high breaking strength and abrasion resistance.

The fabric is not only lightweight, but it can also withstand the harsh climatic conditions faced in Australia. The garments provide a lasting professional appearance and the high-vis yellow and orange colours meet the Australian high-vis standard for colour fastness against UV, washing and perspiration.

The fabric is certified to leading international and local standards: Arc Protection: NFPA 70E - 2015 (HRC-1); Flash Fire: NFPA 2112-2012; High Daytime Visibility: AS/NZS 1906.4: 2010 (Yellow & Orange); Oeko-Tex 100: Class 2; and Electrostatic Dissipative: EN1149-5: 2008.

For more information, email: [personal-protection.enquiries@dupont.com](mailto:personal-protection.enquiries@dupont.com).

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# FIRST WHS CONVICTION FOR FAILING TO CONSULT

In May this year, the South Australian Industrial Relations Court recorded the first conviction against a company for failing to comply with the duty to consult, cooperate and coordinate activities with other duty holders in relation to work health and safety matters.



In *Boland v Trainee and Apprentice Placement Service Inc.* [2016] SAIRC 14 (27 May 2016), a trainee and apprentice placement organisation, Trainee and Apprentice Placement Services Inc. (TAPS), was fined \$12,000, a fraction of the potential maximum penalty of \$100,000, for breach of consultation obligations under the Model Work Health and Safety (WHS) Act.

This is the first time that any Australian company has been convicted for breach of the duty to consult with other duty holders since the WHS legislation was enacted in most Australian states and territories.

## CIRCUMSTANCES OF THE OFFENCE

TAPS is a not-for-profit organisation that places plumbing and roofing industry apprentices with host employers. Similar to some labour hire providers, TAPS directly employs the apprentices and undertakes to monitor and train the apprentices on behalf of host employers with the intention of securing the placement of more apprentices and trainees in the plumbing and roofing industries. At the time of the judgment, TAPS employed approximately 260 apprentices who were engaged with about 100 host employers.

In January 2014, an apprentice TAPS had placed with a roofing business suffered "horrific injuries" while working at a construction site when a section of guttering he was handling came into contact with power lines.

The apprentice was standing on scaffolding and being handed guttering by his supervisor (who was also the owner of the roofing business) from a lower level. Live power lines were located 4.1 metres from the top of the scaffolding on which he was standing and the guttering handed up to him was 7.7 metres long. The guttering came in contact with both a 240-volt and

an 11,000-volt power line and the apprentice was electrocuted.

The evidence before the Court was that the power lines were in close proximity to the scaffolding and presented a real and present danger. Despite this, the roofing company that the apprentice was working for and the company in control of the site, Inspire Construction Services Pty Ltd (now in liquidation), had not put any safety measures in place to deal with this safety risk.

## OBLIGATION TO CONSULT

TAPS was prosecuted under section 46 of the *Work Health and Safety Act 2012* (SA), a provision which is replicated in all other



Australian states and territories that have adopted the model WHS legislation (ie, all states and territories other than Victoria and Western Australia). That provision states:

*"If more than one person has a duty in respect of the same matter under this act, each person with a duty must, so far as is reasonably practicable, **consult, cooperate, and coordinate** activities with all other persons who have a duty in relation to the same matter."* (Emphasis added.)

Interestingly, while other entities were charged with safety breaches after the incident, TAPS was the only entity to

be prosecuted for breach of the consultation duty where the construction company in charge of the site had gone into liquidation.

The Industrial Magistrate found that TAPS had an awareness of WHS issues and undertook certain measures to comply with its WHS duties. For instance, its field officers visited each of its host employers' sites every eight weeks.

However, the Court also found that TAPS had not engaged in a consultation process with the roofing company about its WHS policies and procedures and admitted that the JSA audit conducted on-site prior to the incident was inadequate. The Court accepted evidence there were no safety measures in place at the site, despite it being a high-risk environment.

### PENALTY

The Industrial Magistrate applied a significant reduction to the penalty imposed on TAPS for breach of section 46 because it had:

- no prior convictions;
- entered an early guilty plea;
- acted swiftly to comply with improvement notices;
- carried out a comprehensive revamp of its safety procedures;
- spent around \$70,000 improving its safety systems to ensure that it complied with its duty to consult, cooperate and coordinate with its host employers in the future; and
- provided substantial ongoing support to the injured apprentice after the incident.



*The Court's decision in this case should serve as a timely reminder that the consultation obligations in WHS legislation must not be overlooked.*



### TURNING ATTENTION TO CONSULTATION

In the past there has been a tendency for companies to assume that the obligation to consult with other duty holders is a supplementary and less important WHS duty. The Court's decision in this case should serve as a timely reminder that the consultation obligations in WHS legislation must not be overlooked. This decision is of particular importance to organisations responsible for placing workers with host employers or on client sites to perform their primary work as well as host employers of apprentices or other trainees.

Consultation with other duty holders should form a standard compliance measure in any engagement, placement or audit process. Failing to comply with consultation duties can lead to significant penalties and safety convictions recorded against the company.

Aside from statutory compliance, failing to consult with other parties may prevent

an employer from obtaining all of the information required to make a proper assessment about safety. From a purely legal perspective, consultation with concurrent duty holders is essential to an employer being able to discharge its primary WHS obligations under WHS legislation, where these duties can never be entirely delegated to a third party. From a practical perspective, consultation is also critical to achieving optimal safety compliance by ensuring open communication with everyone involved in work so that all possible hazards and risks are identified and everyone can work together to find solutions. For this reason, consultation must involve not just those who manage and control the work, but also those who carry out or are affected by the work.

Ultimately, the aim of consultation with other duty holders is to:

- identify any gaps in safety compliance, for example, where there is an assumption that someone else is taking care of a health and safety matter;
- understand how your activities impact on health and safety, in particular whether they add to the hazards and risks to which others may be exposed;
- ensure that safety compliance actions are taken by the person in the best possible position; and
- ensure that actions taken to control risks are complementary.

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# VENDING MACHINE BUSINESS GROWS WITH FORKLIFTS



Victorian business Vendco supplies and services a range of drink, snack, food and coffee vending machines and benchtop office coffee machines. The company recently upgraded from a 100 m<sup>2</sup> warehouse to a 600 m<sup>2</sup> combined showroom, warehouse and service centre in

Coburg North, and its new Toyota 8FG 1.8-tonne forklift has made all the difference.

"We already had a Toyota BT walkie stacker forklift, which was fine for our small premises at the time, but when we moved to our current location we knew we'd need to add another forklift to take full advantage of the additional space," said Vendco's proprietor, Steve Moysiadis.

"The BT stacker works well on the flat surface in the warehouse. Space was so limited before it never needed to be operated at full speed, but now it is most of the time.

"It's always been quick and easy to use when lifting the vending machines, and it's simple to control and manoeuvre around the warehouse, so we knew we'd keep it and look for an additional forklift."

The 1.8-tonne Toyota 8FG forklift is now used to load and unload trucks, while the BT stacker handles the indoor duties in the warehouse and showroom.

Toyota Material Handling Australia's Victorian area sales manager, Adem Shemshedin, said the Toyota 1.8-tonne payload 8FG forklift was perfectly suited to Vendco's needs.

Toyota Material Handling Australia Pty Ltd  
[www.toyotamaterialhandling.com.au](http://www.toyotamaterialhandling.com.au)

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**Occupational Noise Surveys** — On-site noise sampling completed a by Class 1 sound level meter and dosimeter for operator personal exposure levels.

**Asbestos Registers** — If asbestos is on-site, a register is mandatory and reviewed annually as per legislation. Asbestos degrades and releases fibres; air monitoring and visual inspection will ensure a safe workplace. Exposure to asbestos requires records to be kept up to date and findings to be accessible to workplace employees.

**Risk Assessments** — A risk assessment will identify, manage and eliminate possible health hazards.

**Air Quality Testing** — Air quality may be reduced due to pollution emissions or poor air circulation in a confined environment.

**Heat Stress** — A person is in danger if the body core temperature reaches 41°C. To accurately assess the risk of heat stress, a monitor is used which records both the core temperature and real-time relative humidity.

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# WHEN BLOWING IN THE WIND IMPROVES MINE SAFETY

A wind-powered device is being developed in South Australia to help maintain safety for workers on mine sites. The 'Spinflector' can clean reflectors on delineator posts at mine sites, which helps to improve visibility for machinery operators.

Trampas Cutler, Spinflector Industries' founding director, developed the Spinflector in Port Lincoln, South Australia and has been trialling them at an iron ore mine in the state's Iron Triangle for the past five months.

He said at most mine sites, teams of workers travelled almost weekly along major thoroughfares, manually cleaning dust and grime from the reflectors, creating safety issues, loss of productivity and additional labour costs.

"It's an endless job, as the reflectors get dirtied with grime over and over again," said Cutler. "That interrupts production, because they have to put signage in place, they have to have clear radio communications with the trucks to tell them to slow down when they drive past and [there is] the massive safety issue of them being run over by a machine."

The Spinflector is designed to fit on a 50 mm PVC delineator post and contains a series of brushes to clean dust and grime from reflectors. The device has a built-in wind vane to power the brushes.

"Even on fairly calm days, you're always going to have the odd gust of wind, and it only really needs to rotate about half a dozen times in a 48-hour period to take the layer of dust off and be effective — it just doesn't allow a build-up of dirt," Cutler said.

The mechanical engineer, who has spent many years working on mining sites, said ensuring the reflectors were clean was of upmost importance at night, especially given the remote nature of most mines.

"On a mine site you've obviously got no streetlights so, apart from the machine's headlights, it's completely black, which can be quite daunting for new operators."

"It's not just mining either; it can also be used in civil construction industries as well," he added. While most large mine sites have about 20,000 delineator posts, a Spinflector

would not necessarily have to be fitted to each one. "The delineators are anywhere between 25 and 50 m apart, so on busy intersections it would be good to have it on every post, but on a long-haul road, you could probably get away with having it on every third or fifth post."

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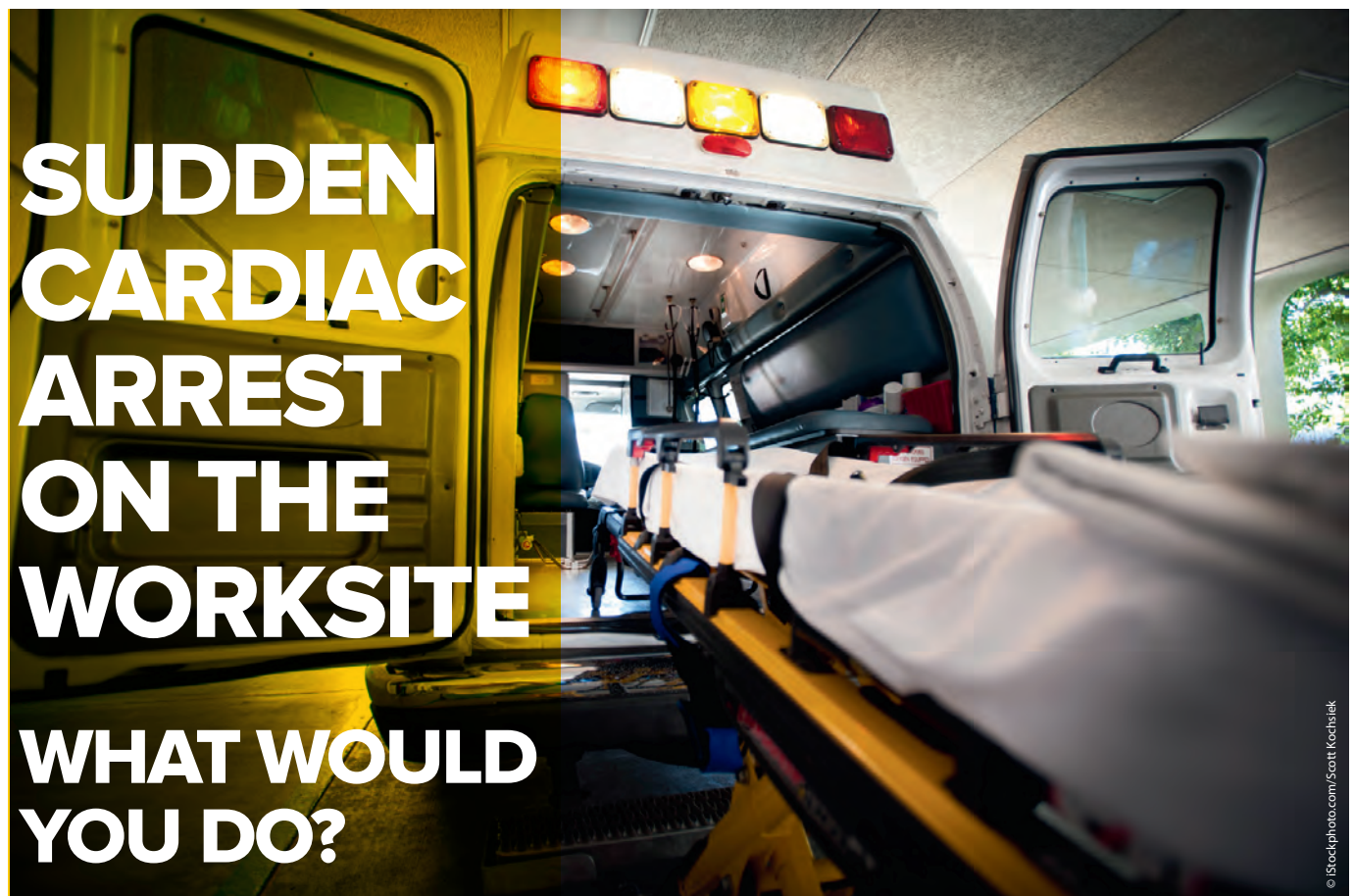
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Imagine you're on the worksite and one of your employees suffers an electric shock. They suddenly fall to the ground — unconscious, not breathing, with no pulse. What would you do?

If the answer is “I don't know”, the tragic reality is that without immediate CPR and a shock from a defibrillator, that person — your employee — would likely die within minutes.

As an employer, you're responsible for the health and safety of your staff, but in order to be fully prepared you must first understand the number one risk facing Australia today — sudden cardiac arrest.

#### **WHAT IS SUDDEN CARDIAC ARREST? ISN'T IT THE SAME AS A HEART ATTACK?**

Sudden cardiac arrest is the largest cause of death in Australia and is far more lethal and unpredictable than a heart attack. A heart attack occurs when the blood supply to part of the heart stops and thus causes

a section of the heart muscle to begin to die; whereas a cardiac arrest occurs when the heart stops beating effectively. In other words, the heart attack victim is awake and the heart is beating. In contrast, the sudden cardiac arrest victim is not awake and the heart is not beating.

Without an immediate response from a first aider and a defibrillator shock, the chances of survival are a miniscule 2 to 5%. For every minute that passes, survival rates reduce by 10%. In other words, in just 10 minutes without any response, death is almost certain — cardiac arrest is that significant.

#### **DEFIBRILLATORS ON THE WORKSITE**

Currently, defibrillators are not compulsory on Australian worksites, which is particularly

alarming for the construction industry where workers risk their lives every day when navigating loose wires, operating machinery and generally working in unpredictable environments.

Electrocution can cause sudden cardiac arrest and requires urgent application of a defibrillator; yet tragically, 15% of all workplace deaths in construction occur as a result of electrocution.

Having a defibrillator on-site and an adequate number of trained first aiders is the best way to ensure employees are safe in the event of a workplace emergency. Safe and healthy workplaces can also boost staff morale, lower levels of absenteeism, reduce job stress and encourage higher organisational commitment — a win-win for all involved.

But when it comes down to actually buying first aid equipment such as defibrillators, most employers think “it will never happen to me”. What they may not realise is that it doesn't matter how old a person is, what they do for a living or whether they're physically fit, cardiac arrest can (and does) strike anyone, anywhere, at any time.

#### **THE COST OF BEING UNPREPARED**

Small businesses take a range of cost-effective precautions to minimise risk in the workplace and boost productivity. Let's take a look at how defibrillators stack up against other workplace risk solutions:

- Staff sickies cost \$340 per day per person in lost productivity — solution: a \$25 flu jab.



## defibrillator first aid

- An IT system fail costs \$670 per hour in lost productivity — solution: a \$180 server back-up.
- A false fire alarm costs \$2000 — solution: a \$50 smoke detector.

The cost of cardiac arrest without a defibrillator is insurmountable (with employers facing staff recovery, mental health, sick leave, and fatality).

### HOW DO I GET PREPARED?

#### *Understand your duty of care*

By law, employers must provide a safe working environment so far as is reasonably practicable — this includes having an adequate number of trained first aiders, equipment, procedures and facilities needed to create and uphold a safe workplace for all employees at all times.

Failure to provide adequate first aid facilities exposes businesses to financial liability and reputational damage.

#### *Get first aid ready*

Ensure you have enough trained first aiders in the workplace at all times. It's also important to make sure you've got an adequate number of first aid kits that are fully stocked, easily accessible and replenished often.

#### *Insist on having a defibrillator on-site*

While a defibrillator is not compulsory, it is a vital piece of emergency first aid equipment and the only definitive first aid treatment for cardiac arrest.

In the event of cardiac arrest, the correct response follows the



*... having the knowledge and confidence to administer a defibrillator shock correctly is crucial to ensure the best outcome.*



DRSABCD (danger, response, send for help, airway, breathing, CPR, and defibrillation) Action Plan with CPR administered prior to a shock from a defibrillator. While using a defibrillator is very simple (the user follows audio instructions), and anyone can and should use one in an emergency, having the knowledge and confidence to administer a defibrillator shock correctly is crucial to ensure the best outcome.

While you can't control when and where cardiac arrest strikes, there are simple steps you can take to ensure your employees lives are not at risk in the event of a workplace emergency.

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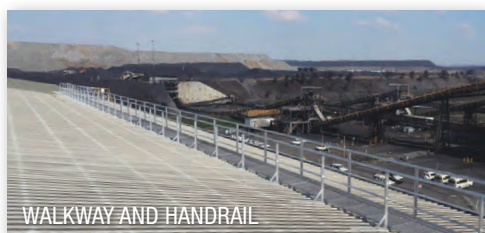
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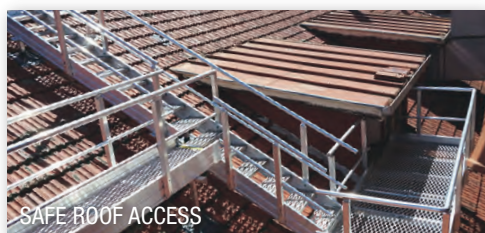
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## Quad bike safety action on Victorian farms

Last year, 22 people tragically lost their lives in quad bike incidents in Australia. In the past three months, two Victorian farmers lost their lives on farms after being crushed when their quad bikes overturned.

In an effort to tackle the numbers of deaths and serious injuries caused by quad bikes, the Andrews Labor Government announced a \$6 million subsidy scheme to help Victorian farmers make their quad bikes safer.

Premier Daniel Andrews said the scheme provides rebates to farmers to either fit rollover protection devices on existing quad bikes or help them purchase an alternative safer vehicle.

"Too many Victorians have died or have been seriously injured using quad bikes and that's why the Labor Government is taking action to protect our farmers," said Andrews.

The rebate supports a recent decision by WorkSafe to include appropriately fitted rollover protection devices on quad bikes to its list of approved safety measures to help drive down workplace fatalities and injuries.

WorkSafe will also be shortly releasing a major public awareness campaign in regional Victoria on the risks associated with using quad bikes on farms.

Eligible farmers will be offered up to \$600 each for up to two quad bikes to fit rollover protection (known as an operator protection device or OPD) or \$1200 towards the cost of buying a more appropriate work vehicle.

It is estimated that more than 5000 farmers will receive the rebate over the two-year life of the scheme, which will be managed by WorkSafe Victoria and the VFF.



Image courtesy of Peter Barr (via Geograph) under CC BY-SA2.0



© Ingenious/Dollar Photo Club

## Taking a carrot-and-stick approach to workplace safety

Workplace injuries and illnesses cost the Australian economy more than \$60 billion annually and in Queensland the manufacturing, agriculture, transport and construction industries account for almost 70% of work-related fatalities.

Adopting a carrot-and-stick approach is the key to reducing deaths, injuries and illnesses on the job, according to QUT researcher Dr Jason Edwards, who is working with Queensland industry to come up with positive ways to improve workplace safety performance.

Dr Edwards, from QUT's Centre for Accident Research & Road Safety – Queensland (CARRS-Q) has been awarded a three-year Advance Queensland Early-Career Research Fellowship to develop lifesaving strategies in workplace health and safety regulation.

"The aim of this research is to develop evidence-based strategies that reduce productivity losses due to injuries and illnesses.

"Historically, the key driving force to encourage safe workplaces has been deterrence through occupational health and safety (OHS) legislation and enforcement of the laws; however, the likelihood of punishment is often insufficient to deter unsafe practices.

"Even when applied effectively, the stick approach only encourages compliances to a minimum legal requirement rather than the pursuit of safety excellence."

Dr Edwards said a modern approach was to apply principles of "responsive regulation" to promote workplace health and safety through a combination of educative and directive strategies.

"While existing approaches have had some effect, fatalities and injuries in the workplace remain a major public health and economic concern and we need to direct attention towards supportive approaches that promote an improvement to safety performance," he said.

"My previous research in the heavy vehicle industry indicated that initiatives that are tailored to the layout of a particular industry's structures, and the culture and beliefs of the workforce within it, encourage compliance.

"For example, we found that when organisations provide incident reports to heavy vehicle drivers of crashes, injuries and fatalities involving other drivers, compliance with the road rules and safety initiatives increased."

As part of the study, Dr Edwards will work on the ground with manufacturing, agriculture, transport and construction employees and management and in conjunction with Workplace Health and Safety Queensland.

"Throughout this research project we will be feeding back information to workplaces so that current practices and experiences can be reviewed in line with our findings and new strategies trialled," he said.

The study is also being funded by Workplace Health and Safety Queensland.

## Ladder safety warning issued by SafeWork NSW

SafeWork NSW has issued a reminder to NSW businesses to work safely with ladders after one worker was killed and four were seriously injured in falls over the past two months.

A 58-year-old electrical contractor suffered fatal head injuries when he fell three metres from a ladder in June. Other incidents involved a 38-year-old form worker suffering a fractured skull when he fell two metres from a ladder at a construction site earlier this month and a 39-year-old roofer suffered a broken pelvis and internal injuries when he fell from a ladder in May.

SafeWork NSW Executive Director Peter Dunphy said most incidents occurred due to incorrect or inappropriate use and that, where possible, other safer alternatives should be used.

"Ladders are used in workplaces throughout NSW but they need to be used safely to prevent the risk of serious injury," Dunphy said.

"This is highlighted by the fact that between July 2011 and 31 May 2016, 3168 workers were injured in falls from ladders, including two fatalities at a total cost of \$54.5 million to the NSW workers compensation system.

"Ladders should only be used for simple access or short periods, and businesses must have safety measures in place.

"SafeWork NSW recommends businesses only use ladders on flat, stable surfaces and workers should only take small items up or down them.

"They should also maintain three points of contact with the ladder at all times — that is, two hands and one foot, or two feet and one hand on the ladder, and never lean or reach away from the ladder while using it.

"A-frame ladders should always be set up in the fully open position. And if you're using an extension ladder, secure it at the top or the bottom, or even at both ends to stop it slipping.

"Also consider whether other safer alternatives are more appropriate, such as scaffolding and elevated work platforms, such as scissor lifts or cherry pickers.

To help businesses work safely with ladders, SafeWork NSW has produced a safety video that can be viewed on a computer, smartphone or tablet device. It contains provides practical tips that can be easily implemented in the workplace.

[www.safework.nsw.gov.au/health-and-safety/safety-topics-a-z/ladders](http://www.safework.nsw.gov.au/health-and-safety/safety-topics-a-z/ladders)



## Start-up's safety app given a boost by Microsoft

Partnering with Microsoft, Australian start-up SafetyCulture now has its workplace audit and inspection app, iAuditor, available on the Windows 10 Store.

The app allows users to conduct audits, security inspections, employee training programs and asset maintenance tests to raise the bar on workplace quality and safety.

The Windows 10 interface now runs on more than 300 million devices worldwide. According to SafetyCulture, native Windows functionality offers users a streamlined experience for collecting audit and inspection data and syncing it with the SafetyCulture platform, even in remote sites.

"Working with Microsoft and its customers brings us one step closer to our core mission — helping build safer workplaces," said Gillian Findlay, chief operating officer at SafetyCulture.

"Mobile is the perfect vehicle to help companies maintain safe, quality workplaces across the globe," said Chris Bright, ISV lead, Microsoft Australia.

SafetyCulture empowers employees to take responsibility for their personal safety while providing rich data analytics that offer managers a window into on-site operations. As a result, organisations can cut inspection times in half, anticipate and avoid problems, reduce business costs and ensure a safe and quality workplace for staffers and contractors.

iAuditor is available on iOS, Android and Windows 10. For more information, visit [www.safetyculture.io](http://www.safetyculture.io).





# MINIMISING MANUAL HANDLING INJURIES

If you're hearing workers complain of soreness after a particular task, that's an indicator that you need to assess the risks of manual handling in your workplace.





for every manual handling task. All tasks were logged in a spreadsheet and ranked in order — from the most difficult and risky manual tasks to the simplest and least risky tasks.

This allowed the group to implement control measures, such as an automated strapping machine that could remove 80% of manual strapping from its warehouse and eliminate hundreds of thousands of manual tasks each year.

The Laminex Group learnt that its workers often come up with the best solutions because they have firsthand knowledge and experience of the tasks.

### WHAT ARE HAZARDOUS MANUAL HANDLING RISKS?

Not all manual handling tasks are hazardous, but the risk factors that cause manual handling injuries include:

- repetitive movement, sustained or awkward postures and high or sudden force;
- repetitive or sustained force;
- long duration; and
- vibration.

When determining whether a task poses a risk, consider the following factors:

- Repetitive movement or repetitive or sustained forces make a manual task hazardous and can cause muscular stress. 'Repetitive' means that a movement or force is performed more than twice a minute and 'sustained' means a posture or force is held for more than 30 seconds at a time.
- Long duration means the task is done for more than a total of two hours over a whole shift or continuously for more than 30 minutes at a time.
- High force is exerted when large loads, relative to the body part doing the activity, are placed on muscles or other tissues. Indicators of a high-force activity may include when a worker describes a task as physically demanding or needs help to do it, or where a normally one-handed task requires two hands. Sudden force occurs when there is a rapid increase or decrease in muscular effort. Examples of this include jarring, jerky or unexpected movements.
- Risk of injury from vibration increases as the duration of exposure increases and when the amplitude of vibration is high. For example, using powered hand tools for a long period of time may place a worker at risk of injury.

### HOW TO CONTROL THE MANUAL HANDLING RISK

Eliminating the risk is the most effective control

measure. If this is not practicable, then minimise the risk as far as possible. To develop control ideas, identify the source of the risk and then determine what things about the source of risk you could change. The main sources of risk are:

- work area design and layout
- the nature, size, weight or number of things handled in performing the manual task
- systems of work; and
- the environment in which the manual task is performed.

To implement the most effective controls, you should:

- start at the top of the hierarchy of control;
- allow workers to trial controls and give their feedback before decisions are made to make them permanent;
- develop work procedures to ensure that controls are understood and responsibilities are clear;
- communicate the reasons for the change to workers and others;
- ensure that any equipment used in the manual task is properly maintained; and
- provide training to ensure workers can competently implement the risk controls. Training should include information about manual tasks risk management; specific manual tasks risks and how to control them; the use of mechanical aids, tools, equipment and safe work procedures; and how to report a problem or maintenance issue.

Remember: training in lifting techniques must not be the sole or primary means to control the risk of MSDs.

Control measures that have been implemented must be reviewed and, if necessary, revised to make sure they work as planned and to maintain a work environment that is without risks to health and safety.

You should review control measures:

- when the control measure is no longer effective;
- before a change that is likely to give risk to a new or different risk;
- if a new hazard is identified;
- if consultation indicates a review is necessary; and
- if a health and safety representative requests a review.

*Further information and a video of the Laminex Group's story, as well as other businesses' injury prevention success stories, are available at [www.worksafe.qld.gov.au/news/2016/how-to-minimise-manual-handling-injuries](http://www.worksafe.qld.gov.au/news/2016/how-to-minimise-manual-handling-injuries). WorkCover Queensland's hotline number is 1300 362 128.*

**WorkCover Queensland**  
[www.worksafe.qld.gov.au](http://www.worksafe.qld.gov.au)

In Queensland, more than 50% of workers compensation claims are related to musculoskeletal disorders, which are often referred to as MSDs, sprains and strains.

Musculoskeletal injuries caused by handling objects most often affect the back, shoulder/upper arm and wrist/lower arm — and the majority of MSDs sustained by workers are preventable.

To reduce injury, increase productivity and improve workers' health and wellbeing, it is recommended that you engage with your workers to identify hazardous manual tasks, assess the risks, identify controls and monitor their suitability.

Businesses such as the Laminex Group have found that by implementing a risk management system to achieve their primary focus of reducing injuries, they also realised productivity gains and cost efficiencies.

The Laminex Group invited its workers, occupational health and safety coordinator and warehouse supervisors to identify the risk level



# KEEPING HOT HANDS COOL, DRY and PRODUCTIVE

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Why?

The skin, the largest organ of our body, is used to regulate its temperature through perspiration (thermoregulation).

On average, our skin contains 155 sweat glands per square centimeter; however, **our hands have 83 per cent more sweat glands per square centimeter than the rest of our body**. The back of our hands contains 200 sweat glands per square centimeter whilst on the palms of our hands there are 370 per square centimeter.

Combine this with a gloved hand and it explains why sweaty hands remains an age-old problem.

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Image shows MaxiFlex® Ultimate™ 42-874  
Patent Nr. EP1608808  
<sup>1</sup>precision handling glove with breathable nitrile coating



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# POWERED HAND TRUCK REDUCING INJURIES

Creativity and innovation have come together in the Powered Hand Truck, designed and manufactured by Makinex Construction Products, which is helping to reduce shoulder and back injuries in the workplace.

The nifty machine is designed as a universal materials handling solution which can replace the need for a forklift or tailgate loader for small loads. It enables one person to safely lift and move small equipment or bulky goods weighing up to 140 kg in a variety of applications, such as workshops, warehouses, factories, depots, distribution companies and hire and rental yards.

According to Makinex, Australian company Kennards Hire has seen a significant decrease in shoulder and back injuries since using the Powered Hand Truck, becoming an indispensable piece of equipment across its Australian and New Zealand locations.

"We use the Makinex Powered Hand Truck at our Kennards Hire & Rental branch to lift and load equipment. It is a fantastic product; we use it all day, every day. This piece of equipment is saving us costs and preventing injuries," said Darren Curmi, Kennard's Hire, Alexandria, Sydney.

With powered lift via a 12 V, 25 A linear actuator, the hand truck is simple to operate. The lifting arm reach is controlled by the user, who can lift or lower the handles, while arm height is controlled by a thumb switch. The company said it eliminates awkward and dangerous one- or two-person lifts.

"Makinex is about making inefficiencies extinct," said CEO Rory Kennard, who plays an instrumental part in the design and development of many of Makinex's products.

"Makinex strives towards continuous improvement by looking close at its business to find unique, innovative and practical product solutions that provide the construction and rental industries with a better way to do their jobs to save time, physical effort and money."



The product also recently won the inaugural Safe Work Australia Award for Good Design, selected from finalists across all categories in the 2016 Good Design Awards.

The Australian-owned company has designed, developed and distributed innovative products to the construction, landscaping, equipment hire, infrastructure and related industries since 2004. Makinex said it has plans to expand its existing product range, grow in local and global markets with offices in Los Angeles and continue its commitment to ongoing research and development.

"We believe that 'good enough' is never enough for our customers," said Kennard.

Makinex Construction Products  
[www.makinex.com.au](http://www.makinex.com.au)

## Heavy-duty air-purifying respirator

The 3M Adflo HD Series powered air-purifying respirator (PAPR) is a heavy-duty model delivering added features and improved performance compared to its predecessor.

Featuring a slim, robust system designed specifically for welders, the series comes with a lightweight, heavy-duty battery (40% lighter than the previous model), which can extend battery operating time to 12 h. This means workers can gain an extra 4 h over standard systems. The powered air-purifying respirator also offers a rapid charge function, which allows the welder to charge the heavy-duty battery from 0 to 80% capacity in approximately 1 h.

The series is available with a range of 3M Speedglas welding helmets, including the 9100XXi Air, -FX Air and -MP Air. It is also possible for Adflo customers to upgrade to the lighter HD system with rapid charge by purchasing an upgrade kit that includes the HD battery pack and charger.

AWS Pty Ltd

[www.awsupplies.com.au](http://www.awsupplies.com.au)



## Heavy-duty hand cleaning wipes

Peter Greven industrial cleaning solutions are designed to help protect workers from skin disease. Heavy Duty Hand Cleaning Wipes are specifically designed to meet the skin cleaning needs of hardworking hands on the job. pH balanced, with moisturising Aloe Vera, lanolin and vitamin E, the wipes are tough on dirt but gentle on skin.

A rough and smooth cleaning side helps tackle all kinds of cleaning, and a large 10 x 12" size reduces waste as it covers a much larger area with a single wipe. The wipes come in a tough dispenser bucket that is portable, making it especially suitable for mobile workers. Each bucket contains 130 wipes.

Suitable for hands, greasy tools and most surfaces in the absence of water, Peter Greven HD wipes can safely remove grease, grime, oils, ink, paint and most materials on the average worksite.

Pryme Australia Pty Ltd

[www.pryme.net.au](http://www.pryme.net.au)



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# TOUGH SAFETY APPROACH FOR GLASS FABRICATOR



Reports of around 10 hand cut injuries every month has prompted South Australian glass business Chevron Glass to make changes to its safety procedures and introduce a mandatory hand protection policy.

While many reported injuries were not serious, the company said they required bandaging or several sutures and interrupted production workflows. "Several serious tendon injuries made us think closely about our glove policy and jolted us into action. We knew we had to make some major changes," said Alan Johnson, WH&S & QA systems coordinator.

Chevron Glass employs about 100 people who produce toughened glass panels, which includes cutting, drilling, grinding edges, packaging and loading tasks. The company said handling thick glass with sharp edges has presented a hazardous workplace safety challenge. The company therefore decided to undertake a three-month glove trial.

"This involved evaluation of different gloves to assess their suitability for our workplace," said Johnson. "We dated the gloves and

fully documented which tasks were being undertaken by operators while wearing different gloves, including when they were first used and how long they lasted."

He said grip was an important factor for not only handling slippery items but also when loading glass for delivery. "The glass-cutting process uses a high volume of lubricant, so we had to examine which gloves could best withstand the process and which hand protection provided the required level of protection in both wet areas and handling of dry glass."

Through trial and error, the company opted for the Ansell HyFlex 11-630 gloves.

"Our people particularly like the comfort and snug fit of these gloves, and they have a very good palm grip surface which is well suited to handling our product," explained Johnson. "The key feature of these Ansell gloves is their high level of cut resistance, which provides the best fit-for-purpose performance in our glass fabrication facility. Our people are very happy to wear them as they now feel safe handling glass."

## CREATING A CULTURE OF COMPLIANCE

Chevron Glass said in an industry where people usually didn't have to wear gloves, the introduction of a mandatory glove policy presented a challenge.

"We had to remain firm in our resolve to implement the policy and allowed our workers three months to become accustomed to the rules. After a three-month introduction period, people were counselled with warnings if they were found not to be wearing gloves. If this behaviour persisted, disciplinary action was taken," said Johnson.

"Since the introduction of our mandatory glove policy, injuries have been reduced close to zero. We are happy that we have solved the hand injury problem."

Ansell  
[www.ansell.com.au](http://www.ansell.com.au)

## Safety gate system

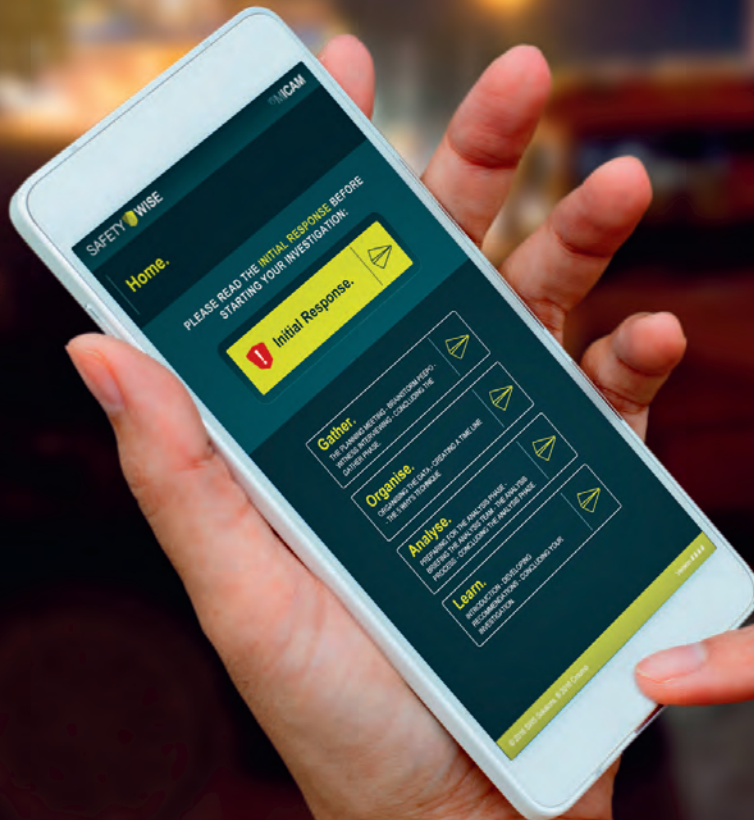
Pilz has added PSENmlock to its range of safety gate systems. It is designed to provide a safe interlock and safe guard locking device in one product. The safe guard locking is enabled by the dual-channel control of the guard locking solenoids. The unit is strong with a holding force of 7500 N and with the integrated latching force of 30 N, the safety gate system prevents the guard from opening inadvertently. That makes the switch particularly suitable for machines that have hazardous rundown that require Cat 4 or PL e protection, such as rotating equipment, robots or moving process lines.

The slimline design makes the device flexible to use and easy to install. The flexibly mounted actuator ensures high tolerance compensation even with sagging gates. It has LEDs on three sides for easily visible diagnostics and its mechanical robustness ensures a long service life.

*Pilz Australia Industrial Automation LP*  
[www.pilz.com.au](http://www.pilz.com.au)



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## Wall-mounted breathalyser

The Andatech Soberpoint 3 is designed to make monitoring workplace alcohol testing efficient and centralised. The Wi-Fi-enabled breathalyser wirelessly syncs test records and device diagnostics to a server, which OHS administrators can access online or from a smartphone.

Data sent to the server are linked to the unit's serial number, making monitoring multiple breathalysers from different worksites more centralised and accessible from a single account.

Test records include total tests taken, and individual tests' date, time and BAC results (accurate to three decimal places). Administrators can also monitor over-the-limit results and cancelled tests in real time through email notifications. There is no need for OHS officers to administer and record test results individually; breathalysers can be installed at key locations on-site and employees can test themselves independently using cylindrical straws.

Maintenance is convenient; hourly diagnostic checks assist in the early detection of machine faults or connection loss, and the breathalyser's fuel cell sensor can conduct unlimited tests before its six-month calibrations are due.

The Soberpoint 3 breathalyser is certified to Australian Standards AS3547.

Andatech Pty Ltd

[www.andatech.com.au](http://www.andatech.com.au)

## Safety glasses

The Scott Safety Helios and Wasp ranges of safety glasses have now been introduced in Australia and New Zealand, offering a comfortable frame to wear for extended periods while delivering eye protection with an unobstructed field of vision.

The glasses are stylishly designed to appeal to both male and female wearers in order to encourage safety compliance on industrial sites. The Helios range features a soft silicon nose bridge adjustable to suit various face and nose shapes, a number of side-arm colours and a selection of lens coatings to offer improved fogging and scratch resistance. The Wasp safety glasses offer a lightweight frame using predominantly polycarbonate materials and a single lens coating across the range.

The glasses in both ranges are all designed to enable wearers to maintain vision clarity while protecting them against potential hazards when cutting, grinding, riveting, machining, sawing and chipping. The lens also provides protection from liquids, mist, splashes and solar radiation or glare. A clip-on dust guard for use in a range of applications, where previously a goggle may have been the only option, is also available in the Helios family. Both ranges are certified to AS/NZS 1337.1:2010.

Scott Safety

[www.scottsafety.com](http://www.scottsafety.com)

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## PV panel shutdown

The intelligent Solarcheck RSD photovoltaic panel shutdown from Phoenix Contact independently puts photovoltaic rooftop systems into a safe state, protecting personnel from electric shock during installation and maintenance or in dangerous situations.

Photovoltaic rooftop systems generate DC voltages of up to 1000 V and cannot be disconnected easily on the DC side. This becomes very dangerous if the system is damaged and personnel are working inside.

The panel shutdown analyses the current and voltage conditions on the DC side of the system. Deviations from the normal state or shutdown of the inverter result in automatic shutdown of the photovoltaic panels. The system is restarted automatically when a technically safe environment is present. The Auto Rapid Shutdown technology is claimed to be more reliable and faster than any human assessment or manual intervention.

Solarcheck RSD consists of a central start unit per string and shutdown units that are installed directly on the respective photovoltaic panels. The system can be easily integrated into the existing panel cabling and does not have to be programmed or configured manually.

*Phoenix Contact Pty Ltd*

*[www.phoenixcontact.com.au](http://www.phoenixcontact.com.au)*



## Air, surface and object purifier

The Better-Air BA is an air, surface and object purifier.

It is used to introduce 'Environmental Probiotics' to indoor surroundings by emitting a repetitive flow of probiotics into enclosed living and work spaces.

The solution targets all spaces, whether seen or unseen, by infiltrating areas with 'good' bacteria. Every 30 minutes, millions of probiotics are dispersed into the air for 30 seconds and inhabit areas where 'bad' bacteria reside. This is claimed to deplete the resources that the harmful bacteria thrive on, leaving them little chance of survival.

Better-Air says with a balance of good and bad bacteria, a healthy environment is created. It is claimed that pathogens do not build immunity to the probiotics, which means they are prevented from mutating into superbugs.

The system is designed to help reduce absenteeism in the workplace.

*Better-Air Australia Pty Ltd*

*[www.better-air.com.au](http://www.better-air.com.au)*

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# HOTPRODUCTS

## Topped parts pouches

Ergodyne's topped parts pouches 5528 (canvas) and 5538 (tarpaulin) feature a hands-free, self-closing Trap Door top preventing items inside from dropping from heights, even when the pouch is tipped over.

Suitable for storing small parts, hardware and tools, the self-closing Trap Door allows easy access to parts without worrying about opening and closing the pouch as with traditional storage solutions.

Accidental tipping and spilling of small parts are traditionally prevented by zipped, buckled or string pulled closures. The added requirement to remember to close the bag after every use leaves room for error and lost work time. The 5528 and 5538 are designed to reduce this risk and provide a safe, efficient alternative.

The pouches also feature two exterior nickel-plated D-rings and two tool loops to assist with tool tethering, keeping in mind tool safety at heights.

*Pryme Australia Pty Ltd*

[www.pryme.net.au](http://www.pryme.net.au)



## Environmental noise logger

The ARL NGARA environmental noise logger provides full measurement flexibility and can be configured to record all sound continuously so noise data can be post-processed. The instrument is also capable of providing logged data, WAV data and alarm/triggered details. It is available for rent from TechRentals.

The logger can be set to wake up automatically and either begin a new logging session or power on its network interface. The onboard LCD and push-button interface enables for simple control and configuration of the logger.

Features include: a Type 1 microphone; 20 to 120 dB measurement range; A and C frequency response; and the ability to store raw audio data to hard disk.

*TechRentals*

[www.techrentals.com.au](http://www.techrentals.com.au)



## Respiratory protection

In respirators, high protection is no protection if the mask is uncomfortable or hard to use. The CleanSpace family of respirators, however, offer all the protection of a powered respirator with the convenience and ease of use of a negative pressure mask.

The range includes the CleanSpace2, the CleanSpace ULTRA and the CleanSpace EX, which work in a range of challenging applications, from everyday mask use, heavy water use and decontamination, to intrinsically safe zones. Weighing 500 g with only a few components, the masks are quick to put on and highly portable. They offer wearers fresh clean air up to 8 h and good mobility with no hoses or cables. Through its simple system and few parts, compliance is improved, while training and cleaning/maintenance is minimised. The masks are also compatible with other PPE through a one-button system.

*PAFtec Australia Pty Ltd*

[www.paftec.com.au](http://www.paftec.com.au)



## Automated external defibrillator

The ZOLL AED 3 automated external defibrillator (AED) is designed to provide an easy-to-use support for rescuers treating a victim of cardiac arrest.

Designed and built upon years of usability research, the AED 3 improves on the support provided by the AED Plus since 2002. The new model is equipped with improved Real CPR Help, which provides real-time CPR (cardiopulmonary resuscitation) feedback on rate and depth of chest compressions that can help rescuers perform high-quality CPR.

It also features universal adult/paediatric electrode pads and a battery that is designed to last five years. The Universal CPR Uni-padz can be used to defibrillate both children and adults using a push-button selection for child rescues.

The device is also easy to maintain because the Program Management Onboard technology cloud-connects via Wi-Fi to ZOLL's PlusTrac AED program management system.

The AED 3 is available in semiautomatic and fully automatic models. For professional rescuers, the AED 3 BLS model provides an ECG display and CPR Dashboard as well as a hardened case.

*Zoll Medical Australia*

[www.zoll.com.au](http://www.zoll.com.au)



## Fire-retardant liquid tarp for solar panels

Solar PV systems cannot be switched off when exposed to light. In the event of a short circuit or an emergency such as a fire, and even with isolation switches installed, the solar panels continue to produce a potentially lethal amount of DC electricity. This creates what has been termed the 'DC Danger Zone', which until now has been a threat and a safety risk.

To combat this, PVStop has been designed from polymer film technology that acts a 'liquid tarp' to switch off a solar PV system in seconds, rendering the entire system safe. The non-flammable and fire-retardant film encases any nanoparticles present in a fire or salvage operation and assists with reducing safety risks to emergency services personnel, electrical contractors and owners of solar PV systems. The product can be used in all weather conditions.

The non-conductive and anti-arcing film can be applied from a distance of over 10 m, which eliminates the need to climb onto a roof. It is designed to not damage the solar PV system and simply peels off after use. It is also non-carcinogenic and can be disposed of with normal garbage waste.

*Solar Developments Pty Ltd*

[www.pvstop.com.au](http://www.pvstop.com.au)



## Safety lockout kits

The CLK-1 Contractors Lockout Kit from Cirlock enables workers to lockout/tagout most common energy sources, such as electrical, gas and high pressure. The contractor lockout kits have been put together specifically for commercial tradespeople and contractors working on industrial sites.

The kit comes in a convenient carry bag with zipper and belt hasp for easy storage and transport, and includes lockout equipment, such as universal lockout for miniature and moulded case circuit breakers; a universal lockout for fuse holders; a multifunction cable lockout device; lockout hasp; safety lockout padlock; as well as danger and warning tags. Also included is a 240 V plug and hose lockout device, and 'The Little Book' about lockout/tagout.

Different kit sizes are available, which can also be custom made. Specific contractor lockout kits for electrical or mechanical workers are also made by Cirlock, as well as combination valve/electrical lockout kits. Users can also choose from a variety of accessories, including carry bags, belt bags, waist bags and toolbox equipment.

*Cirlock*

[www.cirlock.com.au](http://www.cirlock.com.au)







## Guard lock safety system

The Euchner Multifunctional Gate Box (MGB) is a safety system with guard lock monitoring for the protection of safety doors on machines and installations.

The product meets all the requirements for safety-related applications and can be equipped for user-specific applications. Its functions include interlocking, escape release, guard locking, buttons for start/stop, emergency stop, selector switch, etc.

The EtherNet/IP (EIP) version is designed to make wiring easier for users.

Users can decide which element is to be integrated and the related function.

The comprehensive diagnostic information provides a fast and detailed overview of the device status. As the parameters are easy to set, the replacement of the systems, in case of a service, is quick and simple.

Treotham Automation Pty Ltd

[www.treotham.com.au](http://www.treotham.com.au)

## Moisture meter

Moisture and electricity problems don't always show up clearly to the naked eye; therefore, finding the exact location of a moisture or electricity problem might require guesswork. Another difficulty with electricity problems is that they can be dangerous when approached closely.

The FLIR MR160 and MR176 Imaging Moisture Meters locate potential moisture issues visually through a thermal image. Moisture meters can capture moisture readings below material surfaces such as walls, floors or ceilings, either in a non-destructive way or with a wired pin probe. The MR160 model is a troubleshooting tool that identifies cold spots with the built-in, 80×60-resolution thermal imager to locate areas of moisture, while the MR176 provides a solution for professionals who require additional flexibility and more details from their meter readings. This includes four-colour imaging modes, customisable readings and a field-replaceable temperature/relative humidity sensor.

Featuring Infrared Guided Measurement (IGM) technology, these moisture meters can dramatically reduce the time required to assess an area for moisture. They also allow users to scan for moisture using thermal imaging and a laser pointer to target the right spot, meaning they can then confirm and quantify the moisture levels with a pin or pinless measurement. IGM moisture meters also use a thermal imaging colour palette, called ICE, to ensure cold spots stand out as blue with a black border on thermal images.

FLIR Systems Australia Pty Ltd  
[www.flir.com.au](http://www.flir.com.au)

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## Breathalyser

The Andatech Prodigy S breathalyser is suitable for workplace alcohol policies that require comprehensive test records. It features custom data input, a large internal memory for up to 10,000 tests and centralised data access.

The breathalyser is fast and accurate, boasting an advanced industrial fuel cell sensor, fast warm-up and response times, and Australian Standards AS3547 Certification. For added accuracy, it conducts a clean air test to detect alcohol residue before each specific test.

Test records can be as comprehensive as required using the breathalyser's 10 customisable data input fields. Individual fields can be selected for pre-filling, enhancing efficiency especially during mass alcohol testing. Tests can also be recorded as 'Refused' and 'Discontinued' after an incomplete test. Its user-friendly interface, 2.4" touch screen and stylus pen allow seamless navigation and data input.

Test records can be easily accessed from the breathalyser itself and uploaded to a computer via USB. In an upcoming software update, records can be uploaded to an online server for centralised access.

With unlimited tests between 6-month calibrations, built-in calibration statistics and calibration reminders, maintaining the breathalyser is also more convenient.

For on-site alcohol testing, the Prodigy S is also available with a wireless Bluetooth printer (optional).

Andatech Pty Ltd

[www.andatech.com.au](http://www.andatech.com.au)



### Environmental Probiotics™

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# DRIVER MONITORING FOR LONE-WORKER SAFETY

A major transport company recently approached FleetSeek to implement a monitoring solution that could improve safety for its drivers working alone at night, often in rural, distant locations.

FleetSeek worked closely with the company's OHS and operational teams to gain an understanding of the business and its current systems and procedures. Based on this analysis, it then developed a solution specific to meet the needs of the company. The solution included CAMTracker LIVE with GPS tracking, geofencing and duress buttons.

CamTrackerLIVE is a real-time, in-cab driver safety camera that comes with built-in GPS tracking, geofencing and speed alerts. It also includes a G-Force sensor system that identifies erratic driver behaviour and sends a prompt alert to fleet operations, which then enables access to a video clip. The camera operates on the 3G/4G mobile network, which removes the potential of losing any data during an incident, unlike SD card-based cameras.

The duress button in conjunction with the driver safety camera can be used to promptly alert the transport company if an incident occurs. The video footage can then be used to determine what caused the driver to trigger the duress alarm.



Finally, multiple geofencing enables the fleet operator to set up perimeters/virtual fences around any area on a map. In turn, specific alerts can be set up and sent directly to fleet operations. For example, this feature could be used to identify situations where a vehicle has stayed longer in an area than required or if the vehicle enters/exits specific locations outside of working hours.

Choosing the 3G Driver Safety Cameras with integrated GPS tracking has allowed the transport company to monitor its fleet based on its actual business needs and to receive alerts customised specifically to manage the way their fleet operates. The camera's

G-force sensor has resulted in improved response times in the event of an incident.

The monitoring system has also resulted in the lowering of accident frequency throughout the fleet as a result of a changed driver behaviour culture within the company. And the company no longer needs to regularly call its drivers throughout the night for safety checks and location updates — this has freed up resources for the company.

FleetSeek  
[www.fleetseek.com.au](http://www.fleetseek.com.au)

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## Elevated work platforms

Bravi's range of elevated work platforms has been subjected to an extensive research and testing process. The range includes: Sprint, with a 90 kg material load capacity and maximum platform height of 3350 mm; Leonardo HD, with a 180 kg platform capacity and platform height of 2900 mm; and Lui 460, with a 280 kg platform capacity and maximum platform height of 4620 mm.

The Bravi Sprint is suitable for large retailers needing a fast and agile EWP solution in warehouses and on the shop floor. It would also suit commercial maintenance and building management operations for tasks including window cleaning, ceiling repairs and replacing light globes.

The Sprint features a single mast which is operated via an integral hydraulic cylinder. This removes the need for chains and linkages and results in fewer moving parts and no need for regular lubrication and maintenance. Its load platform can also be raised or lowered by the operator via an electric motor. Other features include a high-capacity, maintenance-free battery that can provide up to 30 km travel with a single charge and six-monthly service intervals.

Designed to suit the local market, the range includes a safety feature that cuts the hydraulic lifting system if the interlocking gate is not closed correctly, an operator platform service lock and a recess to the cover to enable it to be used for storage.

*Toyota Material Handling Australia Pty Ltd*  
[www.toyotamaterialhandling.com.au](http://www.toyotamaterialhandling.com.au)



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### Vibration table for testing pull switches

Vibration Systems & Solutions (VSS) helped to design a vibration system that tested if emergency pull switches could withstand the vibrations inherent in conveyor systems at mine sites.

One of the prime concerns on any mining or quarrying site is safety, especially around moving parts. Conveyor belts are good for moving large volumes of material, be it iron ore, cereals or road base, but they also need some method of stopping them quickly in case of emergency. Running alongside conveyors are cables which, when pulled, cause a switch, usually some distance away, to trip and stop the conveyor. While the switches have to be sensitive to the operation of the cable, they must also be able to withstand the vibration inherent in the conveyor system due to various factors, such as the motion of the conveyor idlers.

VSS was asked by a client to help in the design of a vibration system to allow the switches to be tested under various vibration parameters, such as frequency and force of vibration. A vibrating test table with a single vibrating motor and a variable frequency drive (VFD) was designed to replicate the conditions on mine site conveyors. The use of a single motor, from VSS's principals NetterVibration, meant that there was a slight sideways movement to the table top, as well as the usual vertical action, to more accurately simulate actual conditions. The VFD was supplied by the client, who is allied to a company making these units, and this can adjust the motor drive to give varying frequencies and forces of vibration.

The client then visited mine sites with a NetterVibration VibroScanner vibration measuring system to determine the vibration in their conveyors. The system provided accurate frequency, amplitude and acceleration measurements, and these data were replicated on the client's test table to ensure that the switches being supplied could withstand these vibrations and did not give false tripping.

Vibration Systems & Solutions (Australia) Pty Ltd  
[www.vibrationsystems.com.au](http://www.vibrationsystems.com.au)

## Stair tower and amenities for tower cranes

Currently there is no provision for WHS/OHS for a crane driver — ladders can be unsafe and dangerous and there is no amenity provided for the crane driver. The crane driver has to hold, wait or go to the ground to go to the toilet or lunch, which can be unproductive as the crane is idle.

The SuperCraneTower is designed to provide safe and comfortable stair access for crane drivers and other users of cranes such as servicemen, repairmen and rescue teams.

The SuperCraneTower is not attached, it's a freestanding stair tower adjacent to a tower crane.

With a landing every 2 m, the stair tower is easy to use even when carrying spare parts, tool box, first-aid kit, etc. In the event of an emergency, an injured driver can be moved down the wide stairs.

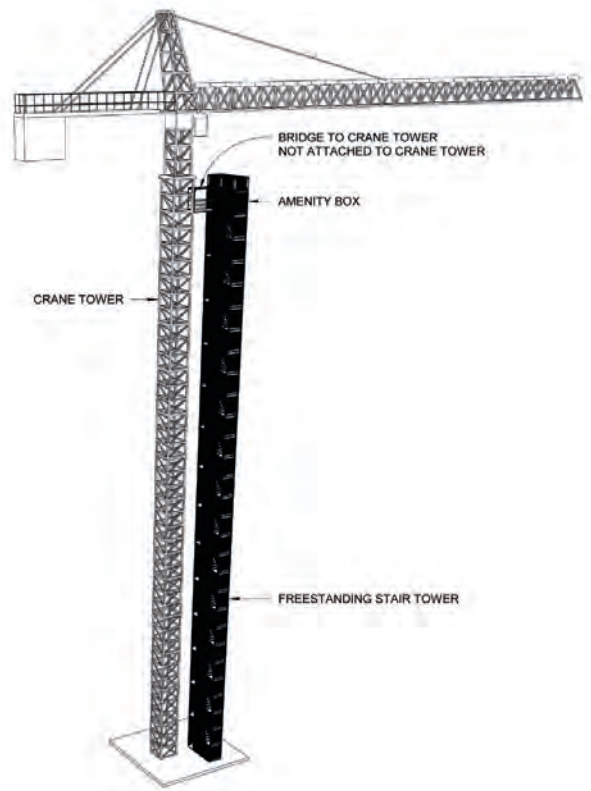
An optional weatherproof Amenity Facility box is also available with the stair tower. Positioned at the top of the stair tower, it is designed to improve productivity by limiting the number of times the driver needs to leave the crane. The box may be designed to include a number of the amenities including: toilet, vanity, air-con, table, chair, fridge, locker, resting lounge, exercise gym and first aid.

Designed to provide a safer alternative to current methods for a crane driver's access, the SuperCraneTower is compliant with WHS/OHS regulations and comes preassembled for quick installation.

Preston is also interested to contact partners to fully develop the SuperCraneTower stair access.

*Preston Australia*

[www.prestonaustralia.com](http://www.prestonaustralia.com)



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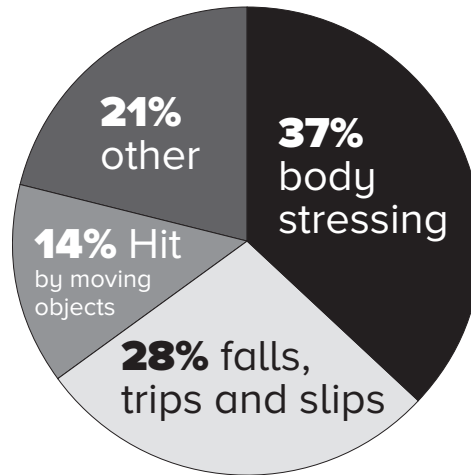
# 30%

of fall injuries in the construction industry were caused by ladders

Source: SafeWork Australia — Construction Industry Profile — May 2015 — [www.swa.gov.au](http://www.swa.gov.au)



## Main causes of injury in the construction industry



Source: SafeWork Australia Construction Industry Profile — May 2015 — [www.swa.gov.au](http://www.swa.gov.au)

## Healthy lunch

for hungry workers

Energy-intensive construction work requires high-energy fuel.

But instead of reaching for pie and chips next lunchtime, why not try packing some healthy high-energy, lunch-box options such as Tuna/salmon/chicken salad, wholemeal sandwiches or rice or pasta salads. Also, make sure you pack plenty of healthy snack options to keep you fuelled throughout the day, such as: fruit, boiled eggs, almonds or other nuts, yoghurt and cheese.



## INDUSTRY VALUE ADDED (IVA)

The construction industry showed **positive growth** in IVA **up 7.6%** (\$8.2 bn) in 2014–15 ABS statistics



Source: Australian Bureau of Statistics — Australian Industry, 2014–15, released May 2016 — [www.abs.gov.au](http://www.abs.gov.au)

## Elevated work assist vehicles

Crown has introduced the Wave 60 Series with new AC drive motors to its Wave Work Assist Vehicles line of elevated work platforms. The vehicle is suitable for warehousing, retail stocking, machinery servicing and showroom maintenance as an alternative to rolling ladders.

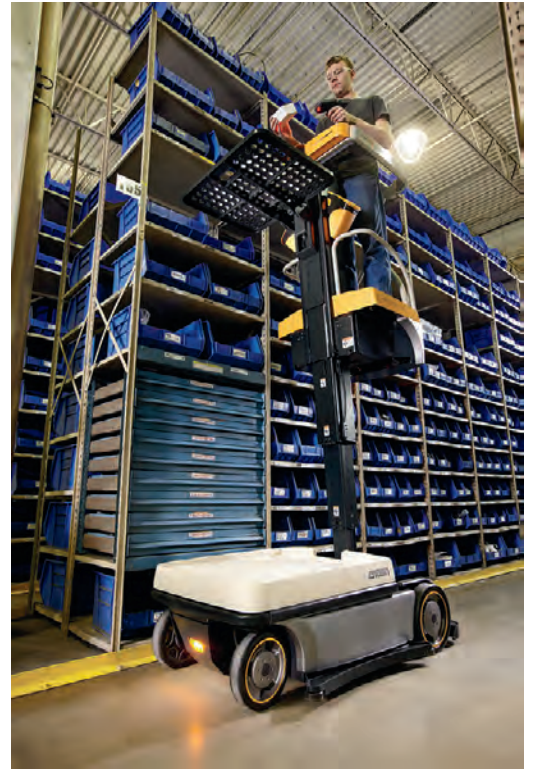
The work assist vehicles can reach to heights of up to 5 m, travel speeds of up to 8 km/h and offer increased manoeuvrability. Hand sensors help ensure operators have both hands inside the perimeter of the vehicle and on the controls during operation, while travel and lift/lower functions cease if either hand is removed from the controls. Safety sensors below the platform also disable the device's raise, lower and travel functions if the motor cover is obstructed. In addition, dual foot pedals with built-in sensors ensure operators have both feet properly positioned on the platform; if either foot is removed, travel and lift/lower functions are automatically disabled.

Available in a silver and orange design, the work assist vehicle offers durability with stamped steel side covers, steel front, rear and side bumpers and three-spoke cast steel wheels. A new display and operator interface communicates with operators through text and graphic messages, alert icons and audible alarms. It also includes 18 language settings for messages.

The Wave load tray supports up to 90 kg, while the load deck holds up to 115 kg. An optional, powered-load tray features infinitely variable positions that allow operators to easily make height adjustments for flexibility with any load.

*Crown Equipment Pty Ltd*

[www.crown.com](http://www.crown.com)



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# MENTAL HEALTH AND WELLBEING A FEATURE AT SAFETY IN ACTION SYDNEY

More than 4000 decision-makers in Workplace Health & Safety (WHS) across manufacturing, government, construction, health care, transport, distribution, cleaning and engineering will gather in Sydney this September.

**P**resented in association with the Safety Institute of Australia, Safety in Action Sydney is designed to meet the needs of Australia's health and safety industry by providing three days of networking, learning and sourcing opportunities for anyone whose job involves safety.

"For the last 16 years, the Safety in Action series of exhibitions have been the meeting place for the Australian safety industry," said

Keith Barks, general manager at Informa Australia, who is jointly presenting the event with the Safety Institute of Australia (SIA).

"It's estimated that over 2000 workers die from a work-related illness each year, highlighting the urgent need for national improvements to prevent and reduce the number and severity of injuries and illnesses in the future."

Next to a great variety of exhibitors showcasing the latest safety products and

services, the show will include a full and engaging seminar program from leading safety professionals. The seminars will focus on mental health and physical wellbeing at the workplace and educate organisations on a range of ways to create a healthier and safer workplace.

Attendees at the show can gather information about workplace safety and health, learn from industry experts during 18 free seminars, connect with leading safety suppliers, try out new safety products and innovations, and share knowledge about the latest legislations, regulations, trends and developments in the safety industry.

Running parallel to Safety in Action will be the Safety Institute of Australia's National Convention, a two-day conference featuring global and Australian safety leaders who will address the theme of 'Disruptive Safety'. The convention program will include the SIA annual general meeting, OHS education awards, OHS leaders and CEO's breakfast, and a women in leadership forum.

Exclusive to Safety in Action Sydney will be Australia's cleaning and hygiene show CleanScene. Presented by the National Cleaning Suppliers Association (NCSA), the co-located event will feature a number of exhibitors catering for cleaners, commercial, industrial and facility managers, government agencies and purchasing officers.

## DETAILS ON THE THREE EVENTS AT A GLANCE

**What:** The Safety in Action Sydney Show  
**When:** 6–8 September 2016  
**Where:** Sydney Showground, Sydney  
**Web:** [www.safetyinaction.net.au/sydney](http://www.safetyinaction.net.au/sydney)

**What:** SIA National Safety Convention  
**When:** 6–7 September 2016  
**Where:** Sydney Showground, Sydney  
**Web:** [www.siasafetyconferences.com.au](http://www.siasafetyconferences.com.au)

**What:** CleanScene  
**When:** 6–8 September 2016  
**Where:** Sydney Showground, Sydney  
**Web:** [www.cleansceneshow.com.au](http://www.cleansceneshow.com.au)





## Modular climbing solution

The Swiss-engineered HighStep is a modular climbing solution designed for challenging height-access applications.

The system comprises a simple-to-install, low-maintenance rail system which is paired with climbing devices to facilitate mechanical and automated climbing. Mechanical climbing is achieved with HighStep Easy, a climbing device similar to a pair of shoe pedals, and HighStep's fall arrestor, Protector. Automated climbing is achieved with HighStep Lift — a portable, battery-powered elevator.

The system is designed to be safe with three points of continuous contact at all time, reducing risk of falls and mishaps without compromising climbing speed.

It is also designed to be ergonomically friendly and efficient to climb. Climbing on the HighStep Easy uses similar movements to climbing stairs with the height of each step determined by the user. Rests can be taken at any point whenever the user feels fatigued — the need for rest platforms becomes redundant.

The system is simple to install with minimal engineering required compared with other climbing systems.

Suitable for a wide range of applications, some examples include: electricity pylons and power plant, telecommunications and broadcasting towers, tower cranes, mobile and overhead cranes, wind turbines and confined space/ underground access — shafts and tunnels.

*Ferno Australia*

[www.ferno.com.au](http://www.ferno.com.au)

## Health and safety (EHS) software

VelocityEHS's portfolio of environment, health and safety (EHS) software supports workplace processes to manage risk, sustainability and chemical management.

Suitable for a broad range of industry sectors, the system is designed to connect every employee from the top management to the front line. Ensuring the system serves all roles, directly or indirectly involved in EHS, allows each user of the system to contribute, remain visible and improve performance on a team basis.

The system modules segment workplace processes that manage leading and lagging indicator activities and support continual improvement business processes such as effective communications and corrective actions. These are divided into management system activities, with functionality covering configurable dashboards, variable workflows, and reporting and analytics. On and offline connectivity is centred on responsive design to ensure that any workplace environment is appropriately covered through desktop and mobile devices.

The portfolio covers: incident management, audit and inspections, management of change, risk analysis, performance metrics, compliance management, training tracking, safety meetings, SDS chemical management and ergonomics.

*Velocity EHS*

[www.ehs.com](http://www.ehs.com)

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## Healthy bodies initiative

Physically and mentally healthy workers are claimed to be more alert, more positive and less likely to injure themselves at work.

The CBI Healthy Bodies Subscription is designed to help embed a culture of health and wellbeing across an organisation.

The service provides access to health, wellbeing and safety messages across a variety of media, with online access, webinars and over 150 topics. It can include access to live fitness classes, health byte videos, health coaching and an online GP service.

The membership also includes an annual review to discuss a company's health and safety goals, as well as reports on how workers are responding to the various initiatives.

*Corporate Bodies International Pty Ltd*  
[www.corporatebodies.com.au](http://www.corporatebodies.com.au)

## Personal safety device

MCM Electronics has released the Loneworkr personal safety device that is designed to provide continuous monitoring for remote and lone workers.

Available in a durable, discrete lanyard design, the device is easy to access and comes with one- and two-way voice communication and a single press alert.

It operates on 2G, 3G and 4G automatic GSM, as well as Satellite GPS + GLONASS.

Suitable for healthcare workers, community workers, mining, security, cleaners, home help and real estate/insurance agents, the device features a high-sensitivity microphone, secure SIM, global roaming and a 60 h standby battery.

*MCM Electronics Pty Ltd*  
[www.mcmelectronics.com.au](http://www.mcmelectronics.com.au)



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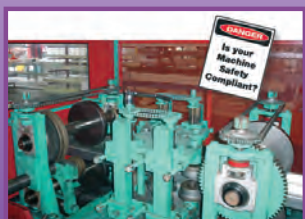
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## Aquatic risk management service

The need to manage risks in aquatic environments is becoming increasingly demanding for land and facility owners. Local government has some responsibility in ensuring safe aquatic venues, particularly where facilities are provided for the purpose of recreation.

Ensuring these venues comply with an increasingly complex regulatory framework and best practice may require specialist knowledge that is not available internally or is provided by an independent external governing body.

To assist organisations in achieving this, Royal Life Saving has introduced a range of Aquatic Risk Management Services, including Aquatic Facility Safety Assessments, Aquatic Facility Desktop Audits, Inland Water Safety Assessments and Water Safety Signage.

*Royal Life Saving Society of Australia*

[www.royallifesaving.com.au](http://www.royallifesaving.com.au)

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## Leather glove

The Glove Company has announced the launch of the Komodo Leather Man gloves.

For strength and comfort, the glove is made from soft, supple goatskin leather on the palm and forefingers. This is combined with the latest in advanced fabrics for the back of the palm with modern synthetic, breathable and impact-absorbing fabrics.

The glove is suitable for a range of tough applications as it also incorporates Neoprene knuckle bump and scratch protection. It is felt lined providing comfort and support and its soft and comfortable exterior design can also minimise hand-clenching fatigue. The glove carries an EN 388 certification for protection against mechanical hazards of resistance to abrasion, blade cut resistance, tear resistance and puncture resistance.

*The Glove Company Pty Ltd*

[www.theglovecompany.com.au](http://www.theglovecompany.com.au)



## Thin cut-resistant glove

The Greatguard SuperShield Cut 5 PU cut-resistant glove has been designed to meet the highest European CE Standard Cut Resistant Level 5.

The glove has a thin, breathable and comfortable liner. It can provide good sensitivity and dexterity for handling small accessories.

*Greatguard Safety Pty Ltd*

[www.greatguardsafety.com.au](http://www.greatguardsafety.com.au)

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Tickets for the ARCIA networking dinner can be booked via [ARCIA.org.au](http://ARCIA.org.au) or as part of a package when you book your conference package.

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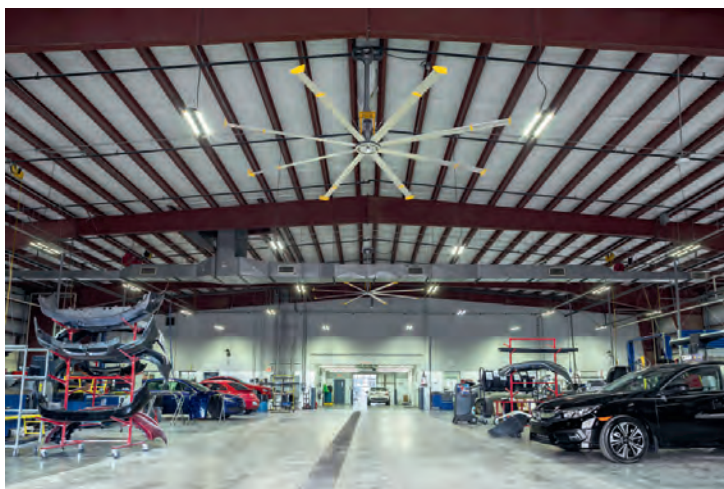
# FANS KEEP WORKERS SAFE AND PRODUCTIVE

Industrial environments present a unique set of challenges for the people who work in them. Factories, warehouses and distribution centres are frequently plagued by hot, stagnant air. In regions of high humidity, condensation can also be a problem, especially in areas such as loading docks, often creating standing water on concrete floors. Performing physically demanding tasks day in and day out under these conditions, workers are not only less productive, their health and safety are also often put at risk.

One simple, cost-effective solution can be the installation of one or more high-volume, low-speed (HVLS) industrial ceiling fans. The airflow created by such fans can have a huge impact on worker safety as well as comfort. The fans can improve air quality through constant circulation and create a significant cooling effect where air con is not an option. Facilities with air con can benefit from large-diameter fans as well, because they work in tandem with the system and allow the thermostat setpoint to be raised several degrees. This can also result in energy savings.

BlueScope Buildings has installed HVLS fans with an eye on employees' thermal comfort and safety. With locations on four continents, including Australia, the company fabricates long-bay trusses and other parts from hot-rolled steel at its 26,000 m<sup>2</sup> US plant in Laurinburg, North Carolina. In the long Carolina summers, workers coped with stifling conditions as temperatures outdoors routinely reached 35°C and beyond. There was no air con, and floor fans provided little relief.

Plant manager David Volk had seen Big Ass Fans and had always wanted to try them out. "We had a bunch of floor fans, and frankly, they didn't work that well," Volk said. So when the company earmarked some money for facility improvements, Volk seized the opportunity



and contacted Big Ass Fans. The company installed four 5.5m Powerfoil X2.0 fans, and Volk says he couldn't be more pleased with the results. "Employees can tell the fans are making a difference. They feel much cooler during the long summer hours."

Large-diameter fans are also effective at eliminating condensation problems. Moisture on the floor creates a potentially hazardous environment for employees when walking and operating

machinery. Many workers compensation claims are attributed to falls on slick floors, and such accidents are also a leading cause of occupational injuries. Large HVLS fans have a proven record of dramatically speeding up drying times when moisture forms. In fact, one company tested the effect of a Big Ass Fan on drying times in neighbouring bays. Boyd Metals in America had frequent condensation problems because of trucks delivering materials from different climates, so at its Fort Smith, Arkansas, facility, it put a fan in one of two adjacent bays. In the bay with a fan, the drying time was four hours. The one without took a day and a half to dry.

Condensation can contribute to the growth of mould spores, too. The air movement provided by high-volume, low-speed fans prevents the build-up of moisture on surfaces that might harbour mould by continually keeping the air moving around machinery and inventory and reaching every corner of a space.

Clearly, large-diameter HVLS ceiling fans such as those manufactured by Big Ass Fans can provide numerous benefits in the workplace, by boosting air quality, eliminating potential hazards and improving worker comfort and safety year-round.

Big Ass Fans Australia Pty Ltd  
[www.bigassfans.com.au](http://www.bigassfans.com.au)



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## Lead Auditor in WHS Management Systems

The purpose of this course is to provide the participant with the skills and knowledge to conduct an internal or external Work Health and Safety (WHS) audit and to evaluate an organisation's arrangements for identifying hazards, assessing and controlling risks, and monitoring and improving the effectiveness of the management of WHS.



SAI GLOBAL

## MachineSAFE Introduction

The MachineSAFE Introduction course has been designed to provide a machinery safety overview and introduction. It has recently been updated to include: methodology for risk assessments, safety validation, guarding, safety principles and safety control systems with reference to WHS legislation and Australian Standard AS4024.1 – 2014 Safety of Machinery.



## Practical Facility Evacuation

The Practical Evacuation Exercise is designed for all staff to take part in an annual simulated emergency exercise at their facility as required by Australian Standard 3745-2010. The practical scenario in your facility will enable the Emergency Control organisation to be confident in performing their roles in an emergency situation.



## Implementing a WHS Management System

The purpose of this course is to provide participants with the skills and knowledge to be able to implement a well-functioning WHS Management System that meets all of the auditable criteria from AS/NZS 4801:2001. The framework for this course is based on the AS/NZS 4804 and the ISO 31000 standards, taking into account the Federal legislative WHS ACT and Regulation of 2011 as well as other relevant Acts and Codes.



SAI GLOBAL

## MachineSAFE Advanced

The MachineSAFE Advanced course is a follow-on from the MachineSAFE Introduction training and has been specially developed to provide a detailed knowledge of machinery safety. This course explores in detail the key aspects of mechanical and electrical safety design for machinery with specific references to Australian/New Zealand legislation and standards.



## Portable Fire Extinguisher Training

The Portable Fire Extinguisher course is designed for all staff to ensure they can competently operate a portable fire extinguisher in an emergency. The course also covers the use of Fire Blankets and Hose Reels.



## Robot Safety

This is a specialised training course developed to provide an understanding of robot safety requirements and examines the increased risks associated with robotic systems. The course will demonstrate how to achieve safety and analyse risk reduction while still maintaining high productivity with reference to best practice standards including EN ISO 10218 and AS 4024.3301.



## CE Marking

Find out all you need to know about the Machinery Directive 2006/42/EC and your requirements with regard to CE marking of machines. Which machines fall under the scope of the Machinery Directive? What are the responsibilities of machine builders, machine operators and employers? The course also covers the corresponding standards, which refer to the design, construction and maintenance of machines placed on the market and operated within the European Economic Area.



## Certified Machinery Safety Expert Course

Machinery requirements have changed significantly over the past number of years with the increasing use of automation and robotic systems, resulting in the need for intelligent machinery safety strategies. A collaboration between two international leaders in their respective fields, Pilz and TUV NORD, Certified Machinery Safety Expert training is the foremost machinery safety training of its kind in the market.



## Incident Investigation and Due Diligence

The purpose of this course is to provide the participant with the knowledge and skills to investigate a WHS incident in the workplace and to apply principles of root cause analysis for corrective and preventative actions. An action-based case study forms the basis of this essential course for all WHS managers and practitioners.



SAI GLOBAL

## Initial Emergency Response Training

The Initial Emergency Response course is designed for all staff who and is designed to give occupants of a facility a general overview of fire safety and installed safety equipment in their facility. The course has both theoretical and practical components so that staff will be confident of what they will need to do in an emergency.



## Warden & Portable Fire Extinguisher Training

The Wardens & extinguisher course is designed for staff who will form part of your facilities Emergency Control Organisation (ECO) as defined in Australian Standard 3745-2010 and Australian Standard 4083-2010. The course has both theoretical and practical components so that staff will be confident in performing their roles in an emergency situation.



## Emergency Procedure Development

Emergency Management Procedures for facilities based upon Australian Standard 3745-2010, Australian Standard 4083-2010 (Health Care Facilities) or Queensland Fire Regulations 2008. Each set of procedures is individually developed to be site specific and includes setting up your Emergency Planning Committee and selection and training of the Emergency Control Organisation.



## Preparing for the ISO/DIS 45001 Migration from ASNZS 4801

This one-day course provides advance information on the requirements of ISO 45001:2016. The course is intended to enable participants working with an existing safety management system based on AS/NZS 4801:2001. It includes a review of each of the new sections of the standard and its interpretation, together with a comparison with the previous version.



SAI GLOBAL

## Risk Assessment Workshop

The Risk Assessment Workshop course is specialised training developed in order to provide the extensive knowledge and skills needed to risk assess machinery in accordance with AS/NZ 4024.1-2014 Safety of Machinery explained in practical terms by our experts. Risk assessment is a fundamental aspect of machinery safety and the first step in complying with the WHS regulations and standards.







## MEANINGFUL WORK

**W**e all search for meaning in life. No-one wants to experience a desolate

lack of connection and we all seek meaning, albeit in different ways, whether we be atheists, Taoists, or flautists. Since we spend a good deal of our time at 'work' it will help if we can find meaning in that work environment and a new study has shown what a meaningful job looks like as well as how your management team can play a role in creating that meaning.

For the new study, researchers from the University of Sussex and University of Greenwich interviewed people working in very different occupations including garbage collectors and priests. The subjects

were asked about incidents or times when they found their work to be meaningful and, conversely, times when they asked themselves: "What's the point of doing this job?"

They found that what managers can do to create meaning is limited but what they can do to create meaninglessness is significant. So, as far as managers or bosses go, the best they can do as far as making work meaningful for employees is make sure they don't make it lacking in meaning. More interesting from this research though is what the researchers discovered regarding the qualities that make meaningful work.

The researchers identified five qualities of meaningful work:

**1. Self-transcendent:** People experience their work as

meaningful when it matters to others more than to themselves.

- 2. Poignant:** Meaning was not only associated with joy and happiness but also with moments of mixed, uncomfortable or even painful feelings.
- 3. Episodic:** A sense of meaning does not occur in a sustained way but instead arises in episodes. No-one is able to find meaning consistently but instead an awareness that work is meaningful is felt at key times.
- 4. Reflective:** People rarely experience meaning in the moment but instead in retrospect and on reflection when they can see their completed work and make connections between what they

have done and a wider sense of meaning in life.

- 5. Personal:** Work feels meaningful when it is understood in the context beyond work in terms of wider life experiences. In the end, meaning matters and organisations need to consider how meaningful work life is for people. As the researchers observed, there is an ethical responsibility for companies to bridge the gap between work and personal life. Managers might not make meaning but they can let it grow. Without meaning an organisation is a transient aggregation of individuals, but with meaning an organisation can become a cohesive whole.

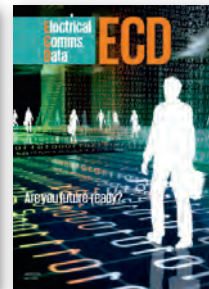
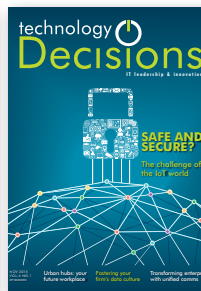
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