

Health, Safety & Security Review

VOLUME 8 | ISSUE 2 2022

Middle East



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editor's note

A number of factors are putting respiratory health at risk in the workforce. In this issue, we report on a 3M webinar which highlighted the need for adequate frameworks and technologies to be put in place to protect workers not only against Covid-19, but any respiratory risks they may be exposed to at work, as well as providing useful advice on the selection of respiratory equipment (p22). The Covid-19 pandemic has catalysed telehealth and the digital transformation of the healthcare landscape in the Middle East; see our article on p14. We also look at connected gas detection (p17), the growth in sustainable safety footwear (p20) and the relationship between fire safety and ironmongery (p18), as well as previewing the Safety & Health Expo (p12) and the MENA HSE Forum (p9).

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Partnership to raise lifting safety and standards



The partnership will help to increase the competencies and professionalism of lifting operators.

INDUSTRIAL SAFETY

OPAL (Oman Society for Petroleum Services) has partnered with RTITB to deliver the Oman National Occupational Standard Project for Lifting Operations Training and Skill Certification assessment scheme.

Oman’s Ministry of Labour has issued a licence for OPAL to establish a first-of-its-kind Sector Skills Unit (SSU) for the energy and minerals sector in Oman. Through this, OPAL is aiming to further promote standards of work, and increase competencies and professionalism among those operating plant and materials handling equipment among its more than 450 members. As part of the new assessment scheme, a

competency card will be issued for lifting operators based on their skill level, in line with standards set by RTITB, a leading workplace transport training accrediting body based in the UK. The standards have been specifically designed for the new scheme to help make measurable improvements to safety, while reducing risk and increasing efficiency.

Competency cards will be issued electronically by RTITB, which will now be one of OPAL’s recognised lifting operation international awarding bodies. Red cards will be issued to candidates who have completed training and are undergoing on the job training (OJT), and blue

cards will be given to competent operators. Only operators who have received the competency card will be able to work for OPAL members. RTITB aims to help OPAL to improve the standards and skills of operators and increase safety in its members’ operations at the same time.

“By setting national and international standards for training and assessment, RTITB is dedicated to improving safety in lifting operations worldwide,” said Laura Nelson, managing director for RTITB, who recently visited Oman to officially sign a memorandum of understanding (MoU) for the new collaboration with OPAL.

New service to endorse training

TRAINING

NEBOSH – one of the world’s leading providers of health and safety qualifications – has launched a new solution for businesses that want to improve their in-company training.

The NEBOSH Endorsed service will – as its name suggests – endorse great health and safety training. Through a collaborative approach, NEBOSH will help organisations to elevate their in-company offering and deliver measurable behavioural change that contributes to healthier and safer workplaces.

A range of solutions are available via NEBOSH Endorsed. They are all tailored to the needs of individual organisations and emphasise learning that delivers tangible impact:

- Assessment and endorsement of existing in-company training
- Bespoke consultation and development of in-company training
- Delivery of engaging online and in-person training
- Learning impact measurement.

Milwaukee expands Middle East PPE offering

PPE

Power tool brand Milwaukee is expanding its Middle East PPE offering for the construction, manufacturing, oil and gas, and agriculture sectors. The company has developed its PPE range from the ground up, with tailor-made features for its target industries, removing the risk-intensive modification of equipment for specific uses.

Massimo Molteni, marketing manager at Techtronic Industries (Milwaukee, AEG) said,

“Our extensive PPE range has been driven and shaped by feedback from trade professionals in many different fields. Safety is our primary concern, and we have employed the same relentless approach to quality that we have with our cordless tools to create a range they can trust.

“Every item is designed to solve a specific problem, such as safety glasses with fog-free lenses that can be worn comfortably all day long, and locking tool lanyards that enable

users to safely secure their tools to their person and prevent droppages. We’re looking forward to adding more exceptional PPE products to our portfolio and making them available to audiences across the Middle East.”

The company’s PPE solutions include head lamps; hard hats; safety glasses; hearing protectors; respirators; personal lighting; heated workwear; hi-vis vests; cut-resistant and special application gloves; tool lanyards; and knee pads.

**CUT
RESISTANT**

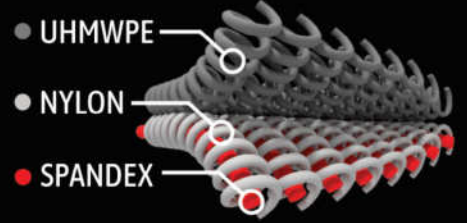
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Softer Feeling

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The final knitted glove is approximately 25% thinner when compared to conventional knitted cut resistant gloves using generic HPPE, due to the final extruded fiber itself having a lower 'Denier' combined with no additional reinforcing fibres (glass/steel) incorporated.

25% Lighter

Reduced overall weight of around 25% in general when compared with more traditional cut resistant gloves knitted with HPPE composites (reinforced with glass and steel fibre). Resulting in a more comfortable, softer hand feeling with reduced hand fatigue.

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Speak up against unsafe PPE, OEUK boss tells female workers

SAFETY CLOTHING

North Sea energy boss Deirdre Michie OBE has urged workers not to be afraid to speak up if they encounter gender bias around the safety of their workwear.

The CEO of Offshore Energies UK (OEUK) made the comments during a webinar hosted by PPE manufacturer and solutions provider Red Wing, which is leading the way in trying to improve the safety of women's PPE kits offshore.

Red Wing's Aberdeen distribution hub has reported a 35% rise in the number of offshore customers providing women's fit coveralls since launching its Right Fit campaign last year, but despite that success, the company says there is still a long way to go to tackle the issue which has existed across many industries for generations. And the crusade now has the backing of one of the UK offshore sector's most powerful women.

Michie said, "Like many other people, I have faced bias, both



Image Credit: Red Wing

Red Wing's Aberdeen distribution hub has reported a 35% rise in the number of offshore customers providing women's fit coveralls since launching its Right Fit campaign last year.

overtly and unconsciously, and I think that's because it exists in society and it exists within our sector. I'd urge people to feel confident that when you see bias, it is appropriate to challenge it.

"Being prepared to call it out in a thoughtful way is the right thing to do, because if you don't, that person will continue to do it, either because they choose to or because they just don't understand the implications of what they're doing."

She said campaigns such as Right Fit were important for diversity and inclusion across the offshore industry.

She added, "If you want to have a successful sector where people want to come to work, where they are delighted to be part of it, then diversity and inclusion is absolutely crucial to what you do and how you go about it. So I'm very proud of the fact it is something that we champion."

PGS wins safety performance improvement award

TECHNOLOGY

The independent research and advisory firm Verdantix has announced winners of its Innovation Excellence Awards recognising outstanding achievements within the areas of Environment, Health & Safety (EHS), Environment Social & Governance (ESG), Sustainability and Operations.

PGS won the Safety Performance Improvement award for the incident management tool that utilises artificial intelligence to identify trends, automate alerts and proactively prevent incidents.

PGS personnel log actual and potential safety issues in a reporting system with free text. With approximately 7,500 issues logged annually, it is time-consuming and challenging to analyse all the data. PGS is using Industrial DataOps software, including Cognite Data Fusion, to take a more proactive approach to HSEQ incident management. Cognite and PGS developed an application called HSEQ Categoriser to sort and categorise the free text based on keywords.

Help AG and Waterfall Security Solutions come together to bolster industrial cybersecurity in UAE

CYBERSECURITY

Help AG, the cybersecurity arm of enterprise (formerly known as Etisalat Digital) and the region's trusted security advisor, has partnered with Waterfall Security Solutions, the global leader in industrial cybersecurity.

With this partnership, Help AG will assist industrial clients in the UAE to securely connect their IT and OT environments for safe and optimal performance.

Help AG's industrial clients will benefit from Waterfall's Unidirectional Security Gateways and related products to tackle the security challenges involved in IT-OT convergence, as well as Waterfall's long experience in helping organisations to integrate IT and OT environments safely and securely.

Commenting on the partnership, Stephan Berner, CEO, Help AG, said, "One of our key focus areas is helping our clients in the

industrial sector to safely integrate their IT and OT systems. For this reason, we are very pleased to partner with Waterfall Security Solutions, a leader in the field of ICS/SCADA cybersecurity. Waterfall's Unidirectional Gateway technology meets the security needs of modern industrial organisations, and our UAE clients now have full access to their patented solutions."

Waterfall Unidirectional Security Gateways enable safe IT/OT integration.

Gas detector facility to begin operations

GAS DETECTION

Honeywell has announced that its new assembling facility for personal gas detectors in Dammam, Saudi Arabia will become fully operational by the end of April 2022, having recently received its required licensing and regulatory approvals.

With this facility, Honeywell has become the first international company to assemble gas detectors in the Kingdom, enabling local availability of the equipment, shorter lead times and on-the-ground customer support. The devices will provide a reliable and cost-effective way to ensure the safety, compliance and productivity of workers who are operating in hazardous environments in Saudi Arabia.

“We are excited to ramp up operations to full capacity at the facility as we advance the production of critical safety technology for use across multiple sectors in Saudi Arabia,” said Shabbab AlGhamdi, country leader, Saudi Arabia and Bahrain for Honeywell Safety and Productivity Solutions. “While



Image Credit: Honeywell

Shabbab AlGhamdi, country leader, Saudi Arabia and Bahrain, Honeywell Safety and Productivity Solutions.

supporting the industrial development of the nation, we’re proud to be contributing to the IKTVA objectives. We are creating job opportunities and enhancing skills through this facility, where nearly all of the workforce is comprised of Saudi nationals.”

Multiple types of Honeywell gas detectors will be assembled at the facility, including single gas detectors (BW Solo), multi gas detectors (BW Micro clip XL and BW MAXTII) and fixed gas detectors (Optima and XNX).

Saudi Arabia and Saudi Aramco’s In-Kingdom Total Value Add (IKTVA) aim is to achieve 70% localisation of production and jobs, supporting the goals of Saudi Vision 2030. The new facility will support these objectives by creating production jobs for Saudi nationals, which leads to enhanced local skills and capabilities for future developments. Honeywell has been active in Saudi Arabia for more than 70 years, playing a key role in supporting and advancing the Kingdom’s industries.

Award for JIIC and LEAD Development

HSE

Jubail Island Investment Company (JIIC) and LEAD Development have been recognised by Abu Dhabi City Municipality for their commitment to excellent health and safety standards, with the Abu Dhabi City Municipality Safety Award. The award acknowledges JIIC and LEAD Development’s outstanding performance in maintaining health and safety, as well as a safe working environment for all JIIC and LEAD Development employees. The accolade also recognises the companies’ achievements in their workforce successfully completing 5.5 million man-hours for the Jubail Island development project, without Lost Time Injury.

Abu Dhabi Municipality and LEAD Development work together closely to monitor the construction of Jubail Island, to ensure compliance with the authority requirements and to share best practice to promote safe working environments in the capital.

Soter Analytics secures investment to develop AI-driven wearables

TECHNOLOGY

Soter Analytics has secured US\$12mn investment to develop AI-driven wearables. The proceeds will be used to fund research and development of wearable and AI-driven solutions to prevent musculoskeletal injuries. Soter’s AI-driven processing technology and wearables are applicable across a range of industries, with a focus on warehousing, manufacturing and construction.

The technology allows workers to follow

and track progress as well as complete manual handling training, and provides personal tutorials to shift safety cultures. Tracking all significant back and shoulder movements, Soter’s wearable technology and analytics dashboard has driven a 55% reduction in manual handling injuries.

Matthew Hart, founder and CEO at Soter Analytics, commented, “Today marks an important milestone for Soter Analytics and our mission to empower organisations to

make their workplace safer. Our bespoke technology provides an end-to-end safety solution through AI and machine learning, and this fundraise shows that our investors and partners have recognised the strength of our product.

“This fresh capital will allow us to invest in research and development and work alongside organisations to help them improve workplace safety, decrease employee turnover, and enable injured workers to return to work faster.”

→ events calendar 2022

May			
17-19	Safety & Health Expo	LONDON	www.safety-health-expo.com
17-19	IFSEC International	LONDON	www.ifsecglobal.com
17-19	FIREX International	LONDON	www.firex.co.uk
16-19	Global HSE	MUSCAT	www.globalhse.org
June			
21	Cysec Qatar	DOHA	www.cysecqatar.com
21-23	Interspill	AMSTERDAM	www.interspillevent.com
September			
6-7	MENA HSE Forum	DUBAI	www.hse-forum.com
13-15	Intersec Saudi Arabia	RIYADH	www.intersec-ksa.ae.messefrankfurt.com
20-23	Security Essen	ESSEN	www.security-essen.de

Please verify dates and location with organisers as this information can be subject to change

Addressing the challenges of marine pollution

Environment protection

Interspill will take place from 21-23 June 2022 in Amsterdam, and is expected to attract more than 1,200 delegates, visitors and exhibitors from 70+ countries.

The concept of Interspill was launched more than 20 years ago and for 2022 is designed to address the changes taking place in the world of marine spills, including the successes in dramatically reducing the numbers of spills and new challenges such as the need for more discussion around marine pollution and on-land spills.

Interspill is a multi-channel event comprised of a world-class exhibition, technical and industry conferences, seminars, science workshops and networking opportunities.

The Interspill conference and exhibition is controlled by the

European spill industry associations NOSCA, SYCOPOL, SRGH and UK & Ireland Spill Association, together with EMSA, IPIECA, OSRL, IMO, IOPC Funds, ITOPE & CEDRE which are members of the Interspill Committee.

Discover new technology and solutions, meet industry leaders and regulators, learn and discuss best practise, and grow business capabilities at the conference, seminars, workshops and exhibition.

The technical conference tracks will cover topics ranging from effective preparedness to inland spill risks.

The Premium Conference provides a forum for scientists, regulators, environmental advisors, responders and other professionals working in the field of marine oil/chemical spill

monitoring and impact assessment to share experience, best practice and knowledge with the wider marine emergency response community.

The Premium initiative aims to disseminate best practice in the application of science to spill scenarios and to promote excellent cooperation and communications in achieving effective post-spill monitoring.

Organised by Cedre and ITOPE, the science workshops are focused on the latest scientific and industry developments.

Industry seminars will comprise a series of presentations highlighting the latest industry developments and technology.

Short courses will be held the day before Interspill, aimed at young professionals and those new to the spill preparedness and response community.

Companies attending include the likes of Lamor Corporation, DESMI, Vikoma International, Oil Spill Response Ltd. and many more. Government agencies, as well as the oil, environment and maritime industries, will return to consider the issues for oil and chemical spill prevention, response and restoration.

There are a number of opportunities to make new contacts at the show including the interactive conference programme, exhibitors' own events and the official networking reception, which will provide an opportunity to network with peers and fellow industry professionals in a relaxed environment.

For further information see the website at www.interspill-event.com

Sharing best practice in HSE and ESG

The renowned MENA HSE Forum returns to Dubai in September, featuring the leading lights of health and safety from the region's foremost companies and organisations.



Image Credit: Alain Charles Publishing

“This industry-leading conference will give unique access to expert analysis coupled with unrivalled business opportunities in a brand new format.”

ABOVE: The event returned to a live format in 2021.

Industry leaders from key sectors including oil and gas, construction and tourism will convene along with regulatory authorities for the seventh edition of the MENA Health, Safety & Environment Forum, taking place in Dubai from 6-7 September 2022.

ADNOC, Petrofac, Aramco, KOC, AMAALA, Dubai Municipality, EGA, Abu Dhabi Waste Management Center (Tadweer) and Dubai Holding among others, will deliver keynote presentations to more than 200 stakeholders from the HSE community in UAE, Saudi Arabia, Kuwait, Qatar, Oman and Bahrain.

The MENA HSE Forum is the

annual meeting point for MENA regulators, HSE practitioners and solution providers to come together to discuss current HSE developments and define their health, safety and environment strategy for a sustainable future. Attendees will receive insights on all the latest HSE trends and critical new technology, network with peers and industry partners, meet expert suppliers and industry bodies and lay the groundwork to achieve the fundamental HSE targets that matter most to the region.

Khushboo Narang, the conference producer, said, “This industry-leading conference will give unique access to expert analysis coupled with unrivalled

business development opportunities in a brand new format, specifically designed to help the GCC's most important organisations embrace and achieve a safe and sustainable future.”

The conference agenda, under the strapline 'Optimise your HSE and ESG strategy by utilising innovative digital solutions and best-in-class frameworks to exceed new regulatory expectations', will comprise five sessions:

- The role of HSE leadership in crisis and business continuity management
- The future of digitalisation in the HSE sector
- Process safety and its framework

- Learning from the pandemic and other global transformations about occupational health and behavioural safety
- Sustainable value creation: how ESG moved from a cost centre to a value driver.

Two exclusive breakout workshops will cover the formulation of resilient safety cultures, and digital transformation – from strategy to execution.

Speakers set to present at the MENA HSE Forum 2022 include Tahir Azhibek, corporate HSE manager, ADNOC; Lynn Hobballah, head of health and safety, Petrofac; Dr Naseem Mohammed Rafee, director of health and safety department, Dubai Municipality; Eng Raed Mohammed Al-Marzooqi, manager of studies and system section, health and safety department, Dubai Municipality; Dr Eng Hani Hossni, EHS director, Tadweer; Brian Maynard, HSE director for AMAALA; Saleh Ali Albalushi, HSE director, Dubai Holding Asset Management; Salman Abdulla, executive vice president, EHSQ & Sustainability, Emirates Global Aluminium; and Dr Essam Hassan, senior environmental consultant, Egyptian Environmental Affairs Agency and KGESS.

Effective process safety management

In advance of the Forum, Dr Eng Hani Hossni, EHS director, Abu Dhabi Waste Management Center (Tadweer), spoke to Health, Safety & Security Review Middle East on Tadweer’s approach to safety management.



The latest health and safety technologies will be showcased at the event.

What are the main process safety hazards you face at Tadweer?

The main safety hazards in waste management result from the improper handling of hazardous waste, which might cause harm to human health. To minimise such risks, the UAE government has launched major initiatives to handle waste management, which include recycling, converting waste to energy and resources, utilising new technologies, and improving waste separation and collection systems. This limits the risks that might result from improper waste disposal.

What do you think are the most important factors for delivering a successful and effective process safety management programme, and how have you approached this at Tadweer?

Complying with regulatory requirements is key for delivering

a successful and effective process safety management programme. At Tadweer, we ensure we adhere to the highest local and international standards in health, safety, and environment management. During our operations, we ensure we are safeguarding the health, safety and welfare of our employees and the public, and ensure that our operational activities are effectively controlled with regard to the protection of the environment.

Tadweer’s Occupational Safety and Health (OSH) policy highlights the importance of putting preventive measures in place to avoid and mitigate occupational health and safety risks. It also outlines the company’s commitment to reviewing, monitoring, evaluating and improving our OSH performance.

What are the main challenges you face in EHS management, and how have you overcome them?

Some challenges in EHS management include pollution and excessive noise, improper handling of material, health issues, and more. At Tadweer, we develop the required systems for managing waste including collection, transport, treatment, safe disposal and pest control services through the use of environmental service providers and technology, to preserve the environment.

“Tadweer’s OSH policy highlights the importance of putting preventive measures in place to avoid and mitigate occupational health and safety risks.”

We have also set a list of health and safety requirements for our contracts, to limit any potential risks caused by waste management. For example, the contractor and subcontractors are required to supply all workers with the personal protective equipment (PPE) needed to protect them from any potential risks. These include a safety hat, safety footwear, coloured overall indicating the company's name, high visibility vest, eye protection, and gloves. In addition, all workers on site must attend an EHS induction by the contractor. We make sure that all our contractors comply with our EHS requirements, through controlling noise, displaying safety signage, having storage for hazardous material, and preventing pollution.

How do you ensure continuous improvement and adherence to global standards?

The Abu Dhabi Waste Management Center (Tadweer) is committed to providing the highest quality waste management services in the Emirate of Abu Dhabi, in line with the best international standards and global practices to achieve sustainability and integrated waste management. We also adopt the most effective methods of public health pest control that align with the directives and vision of Abu Dhabi 2030 to improve e-services in various fields and promote the digital transformation of government agencies in the UAE.

To achieve this mandate, the Center continues to promote cooperation with various entities and launch initiatives and



Image Credit: Tadweer

Dr Eng Hani Hossni,
EHS director, Abu Dhabi Waste
Management Center (Tadweer).

projects that invest in financial, human, and technical resources.

What do you think is the role of technology in promoting safe and efficient operations?

Tadweer is keen to invest in the latest technological advancements that maximise efficiency and promote safety. The Center has provided a wide range of electronic services. These services include providing all recycling services on the Unified Digital Platform (TAMM), providing an access feature using digital IDs, linking with the SADAD Payment System, linking with the Abu Dhabi Department of Health through digital documentation services, as well as providing a dashboard to reduce waste production, and a new version of the licensing and tariff system.

Last year, we introduced Internet of Things (IoT) technology at the construction and demolition waste recycling

station in the Al Dhafra region of Abu Dhabi, a first-of-its-kind step in the Middle East. The implementation of this technology increases operating time to the maximum limit, while also improving energy efficiency by smart remote movement sensors, which will monitor the station's assets and machinery. The Internet has also allowed the incorporation and use of iAuditor application, which is a comprehensive solution for carrying out inspection, monitoring the findings, assigning actions, and is interlinked to the department members' email identification for

“As part of our strategic plan, Tadweer is promoting a sound health and safety culture among its various stakeholders.”

the ease of analysing and tracing.

How important is it to instil a good safety culture and ensure employee engagement for a successful safety management programme?

As part of our strategic plan, Tadweer is promoting a sound health and safety culture among its various stakeholders. We identify, study and evaluate the applicable industry best practices and are continuing to identify challenges develop roadmaps and review both improvement and development strategies and best practices in the field of occupational safety and health.

Last year, the Center achieved a compliance rate of 95% of its occupational safety and health management system in line with the requirements of the Abu Dhabi Occupational Safety and Health System in 2021. This achievement came after the completion of the project for the development of Tadweer's occupational safety and health management system, as well as playing the role of regulator for the waste sector in the Emirate of Abu Dhabi; this covers 146 entities comprising 100 low and medium-risk entities, and 46 high-risk entities, with a total of approximately 23,000 employees. The Center also completed an employee training plan for environment, health, safety, and business continuity, recording a total of 3,300 training hours in the waste sector during 2021. ✦

You can find out more about the MENA HSE Forum and register at www.hse-forum.com/mena/conference-brochure

Safety & Health shine on a global stage

Thousands of visitors will flock to ExCel London for the Safety & Health Expo from 17-19 May 2022, with a host of exhibitors and product launches guaranteeing an expansive lineup.

“Visitors will be able to assess and source brand new solutions for their business at Safety & Health Expo”

The UK's largest dedicated health and safety event is set to reconnect the international health and safety community for the first time since 2019 at the Safety & Health Expo.

Taking place at ExCel London from 17-19 May 2022, the return of the in-person event will see hundreds of exhibitors and thousands of guests exploring stands, summits and speeches from key industry players from across the world.

Attendees have the chance to take place in face-to-face networking opportunities, including the RoSPA Awards and

a gala dinner, networking breakfasts and drink receptions, along with a conference curated specifically for international health and safety professionals. An impressive lineup of speakers will deliver informative and educational seminars on the latest in legislation, industry standards and global best practice.

“Visitors will also be able to assess and source brand new solutions for their business at Safety & Health Expo including workwear, behavioural safety programmes, safety harnesses, PPE, occupational health products, e-learning, training solutions and more, collectively

showcasing the most innovative products launched since Covid-19,” elaborated Safety & Health Expo event director Chris Edwards.

Keynote speeches at the Kaynote Theatre include IOSH president Louise Hosking on 'Harnessing the power of social sustainability', Heather Beach on how traditional health and safety skills help when it comes to organisational wellbeing, a workshop on a 'Cultural approach to wellbeing', and sessions on handling and managing the immediate aftermath of a serious incident, promoting safety across the supply chain, and a fleet driver and safety. ❖

**SAFETY &
HEALTH**EXPO
POWERED BY **SHP**

17-19 MAY 2022
ExCeL LONDON

Image Credit: Safety & Health Expo

A Safety & Health Expo visitor pass gives unlimited access to the entire Protection & Management Series, which includes IFSEC International, FIREX International, Facilities Show and Intelligent Building Europe. For further information see the website at www.safety-health-expo.com

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ANSI
A5
CUT

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 Cut Resistance: LOW [] HIGH []
 Dexterity: LOW [] HIGH []
 Impact: LOW [] HIGH []

EN388
3131XP

ANSI
A1
CUT

ANSI / ISEA 138
1

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and September 2020.

Consumers seek options that can adapt to their changing needs, such as retail and direct-to-consumer solutions or direct communication with their primary care physician. Patients may prefer or be obliged to attend an in-person appointment, while others prefer to save time and money by adopting high-quality telehealth solutions. According to a survey by Align Technology, more than 85% of UAE and Saudi Arabia respondents are embracing teledentistry, with 78% stating their preference due to the convenience of online appointments.

Reliability, consistency, and quality are crucial to improving the patient experience as more healthcare companies establish long-term telehealth and virtual care solutions. However, encouraging provider adoption and establishing customer trust is as vital. Here are some considerations to make while selecting a solution:

Adoption is aided through workflow integration

When combining the proper technology with the correct application, end-users are almost invisible. Providers and patients alike want a telehealth solution that "simply works" and seems as natural and intuitive as something they've been using for years. As mentioned, the GCC is making significant strides towards simplifying the patient and practitioner experience through digital solutions. To provide that experience, the flexibility to integrate and personalise is crucial.

Look for a telehealth solution that can interact with your electronic health record (EHR) or



Image Credit: Zoom

Sam Tayan's role as head of MENA at Zoom has put him at the forefront of the 'telehealth' revolution.

health information technology (HIT) system or allow for application programming interface (API) integration with open platforms, giving you more flexibility and customisation options. Providers may focus on practicing medicine instead of messing with controls or switching platforms because the video is seamlessly integrated into their current EHR.

Consider alternatives to the clinic

Virtual care involves much more than patient-provider encounters, ranging from patient education to population health. Coordinated care teams can rapidly assemble and discuss a patient's treatment plan without being in the same room. Remote monitoring can aid in tracking a patient's health and allow clinicians to communicate with them rapidly via video. Through

virtual visits, family members can also be more involved in their loved one's care.

Using a multipurpose video platform in clinical and administrative contexts can lead to more interaction and information sharing. Virtual training, certification programs, and conferences allow providers to consult with worldwide specialists and continue their medical education. Hospital management can gather workers from several departments and buildings for routine announcements and emergency communications.

Healthcare practitioners and companies can easily bridge the clinic and the business gap by exploring beyond clinical applications for virtual platforms. Organisations can develop critical relationships with their patients, seamlessly coordinate treatment, and communicate more efficiently than ever before with one platform servicing both the company and the consumer – and giving the same universal experience.

It all boils down to the patient's prior experience

We've learned a lot about virtualising the healthcare industry during the last two years. Telehealth and video communications throughout the healthcare continuum make it more accessible, convenient, and inexpensive.

For a better patient experience, focusing on innovation and ongoing improvement is essential. Consumer demands and wants can shift quickly, so a telehealth solution that listens to customers and adapts its products to meet industry needs can help you stay ahead of the curve. ■

“For a better patient experience, focusing on innovation and ongoing improvement is essential... a telehealth solution that listens to customers can help you stay ahead of the curve.”

Zoom's head of MENA on keeping up with demanding healthcare innovation.

New product launches to promote life safety and wellbeing

Occupational health

The British Heart Foundation will be showcasing RevivR, a lifesaving CPR tool, at the Safety & Health Expo taking in place in London from 17-19 May.

RevivR helps users learn lifesaving CPR in 15 minutes. “The training is easy, free and quick; all you need is your mobile phone and a cushion; in 15 minutes, you’ll have the confidence to step in and save a life in an emergency,” explained a spokesperson.

“There are more than 30,000 out-of-hospital cardiac arrests every year in the UK and tragically, less than one in 10 people survive. The BHF wants



Image Credit: British Heart Foundation

The British Heart Foundation will be demonstrating the RevivR CPR tool at Safety & Health Expo.

to triple survival rates of out of home cardiac arrests by 2030 and by learning CPR, employees can help us achieve that. Giving CPR

and using a defibrillator can more than double the chances of survival; the RevivR training tool will teach you how to recognise a

cardiac arrest, give you live feedback as you practice chest compressions and show you how to use a defibrillator.”

The British Heart Foundation will also be showcasing My Wellbeing Check: a low-cost, digital wellbeing assessment tool that lets companies identify what their employees’ health and wellbeing needs are. After answering questions on their lifestyle, employees will receive a personalised dashboard, which collates their overall wellbeing and cardiovascular risk. The anonymised results feed into a company-wide report to help them build their wellbeing interventions.

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Connected gas detection

MSA – The Safety Company discusses the benefits of connected solutions to help optimise gas detector compliance and fleet management.

Efficient and effective management of a fleet of portable gas detectors is important for maintaining the health and safety of employees. There are many factors that can impede this process.

For many safety professionals, it is a big and time-consuming challenge to equip every worker with the correct personal protective device so that workers are prepared to begin the work day. It is not uncommon for safety teams to spend hours overseeing safety programmes at different plant locations. This includes writing incident reports, checking in and checking out equipment, and keeping a manual record of use and maintenance.

A big challenge for safety

managers in managing a fleet of gas detectors is ensuring that the fleet is ready for work. Failing to do so can impact equipment availability, causing unnecessary downtime and non-compliance. Tracking and maintaining dozens or even hundreds of devices is far from easy. Pen-and-paper methodologies have proved to be less than ideal.

Fortunately, this is the digital age, and new technologies, including cloud connectivity, have made their way into fleet management. Using connectivity to automate fleet management can save time for safety managers. It also boosts productivity by providing

“Gas detectors store a lot of data that can provide you with unique safety insights.”

BELOW: Leveraging connectivity streamlines the gas detection fleet management process while also improving safety.

insight into actions that should be taken, making it possible to take a proactive approach in managing the fleet. All in all, it helps to eliminate frustrations and prevents unnecessary downtime.

Gas detection software services can help streamline all aspects of gas detection management – from real-time situational awareness to simplify fleet management and improve safety outcomes, to automated record-keeping.

The cloud-based MSA Grid services are a remote monitoring and smart compliance management solution for the MSA Altair fleet of portable gas detectors. Powered by Safety io, a software subsidiary of MSA – The Safety Company, it helps to automate fleet management – with no upfront capital investment.

Gas detectors store a lot of data that, with the right lens, can provide you with unique safety insights not only to proactively manage any size fleet of portable gas detection, but also for improved safety programmes and outcomes.

Using ready-to-use data available on the MSA Grid, safety managers can learn from data to adjust safety processes and procedures, drive worker accountability, track trends and identify potential issues. ♦



Image Credit: MSA – The Safety Company

Ensuring fire safety COMPLIANCE

Daniel May, director at Consort Architectural Hardware, discusses the pivotal relationship between fire safety and ironmongery, and how compliance is compromised without essential hardware components.

“Fire safety itself is a complex topic... it’s imperative to provide an acceptable level of fire safety for occupants and visitors alike. For this, fire doors play an integral role.”



Image Credit: Adobe Stock

ABOVE: Fire safety ranges from prevention to containment and evacuation.

Fire is an unpredictable risk that poses a whole host of dangers to buildings and organisations.

As regulation strengthens to protect buildings, assets, staff and companies, the fine line that organisations must walk has fire safety equipment at its core. Fire compliance and ironmongery, for core components, appear to walk hand-in-hand.

Daniel May is a director at Consort Architectural Hardware,

a leading manufacturer and supplier of architectural hardware components, and dissected the risks that neglecting hardware installation and maintenance poses to an organisation’s fire safety.

Fire safety approach

Fire safety itself is a complex topic, covering a wide range of subjects and themes, from prevention to containment and evacuation – all of which carry

great significance when designing and maintaining a fire-safe building. For a building’s architects, specifiers, inspectors and owners, it is imperative to provide an acceptable level of fire safety for occupants and visitors alike. And for this, fire doors play an integral role.

Recognised as part of a building’s passive fire protection system, fire doors are a means of escape and are tasked with compartmentalising smoke and

fire during a fire incident. In doing so, they protect the property and its people for a specified time. But fire doors are not the only piece of the puzzle.

Combined protection

Ironmongery and fire safety share a distinguished relationship. To assure performance and compliance, all dedicated fire doors, other than those to locked cupboards and service ducts, must be fitted with the necessary ironmongery components. This includes hinges, door closers, locks and latches.

Each of these hardware components is designed to operate in tandem with a fire door – without them, the door is made redundant. In fact, the integrity of a fire door could immediately be compromised should one area become damaged or fail to meet strict performance standards.

Fire door closers for example, whether concealed or surface mounted, are required to perform what is considered an essential function in closing a door to completion from any angle into its frame or until the latch engages. In facilitating the closing motion, door closers play an active role in ensuring a fire door accomplishes compartmentation.

Because of their significance, controlled closing devices must be tested to BS EN 1154 and fire rated to BS EN 1634.

Upon application, a closer must also be compatible with a door’s existing mechanisms and in addition to CE marking, it is highly advised it should be approved by a third-party scheme such as CERTIFIRE, providing the detail needed for its application.

Similarly, hinges and latches



Image Credit: Adobe Stock

Fire doors depend on components such as hinges, closers, locks, and latches to make a building fire safe.

play an important role in ensuring the integrity of a fire door. Commonly, three hinges are applied to fire doors, and at all times must remain adequately attached, repressing any charring or damage to the door’s timber in the event of a fire. Locks and latches are also essential, assuring a door remains closed within its frame, and provides an effective barrier in the event of a fire. Locks and latches must also be CE marked and tested to BS EN 12209, with many professionals, such as architects, also demanding CERTIFIRE approval for the hardware they use.

Maintaining safety and compliance

Under standard fire safety regulations, should a building fall short in its fire safety practices, the associated party is under risk of receiving heavy penalties and fines. Compliance is a continuous process and so, fire doors and their fitted hardware must remain operational and effective throughout the entire lifecycle of

a building.

To preserve fire performance, regular maintenance is vital. Aside from being up to code, the operational functions of all door furniture items should be checked regularly, including any additional mandatory components such as the operating furniture, intumescent seals (designed to expand and hold the door within its frame in the event of a fire) and relevant door signage. If basic maintenance is neglected, a fire door’s operational life can be significantly reduced – even with the correct hardware in place.

The Regulatory Reform (Fire Safety) Order 2005 recognises this, making it a legal requirement to ensure that fire resisting doors are correctly installed and adequately maintained to be fit to purpose. To keep the building protected, workplace environments for example, must designate a Responsible Person (RP) to undertake regular fire risk assessments, inspecting all elements of fire safety including

the operation of fire doors. As part of ongoing risk assessments, regular maintenance periods are critical, and provide Responsible Persons with an opportunity to review and repair any damage to a door’s working components. Should any hardware issues be raised, decision makers must act quickly and seek professional support to replace or repair the ironmongery until the door is once again fully operational.

Whether in a commercial, residential, or institutional space, a functional fire door is paramount in delivering a building’s fire safety, but only when operating in tandem with ironmongery can it deliver its purpose. All stakeholders and responsible persons throughout the supply chain must recognise this significant relationship between ironmongery and fire safety, or risk falling short of stringent fire safety standards. Because, simply put, door hardware is more than just a finishing touch, it is a fire safety enabler. ✦

The growth in sustainable safety footwear

While performance, comfort and value are the main factors dictating the selection of safety footwear, sustainability is becoming an increasingly important consideration.

At A+A 2021 in Düsseldorf, uvex presented a new sustainable product system – the planet series, showcasing the uvex 1 G2 planet safety shoe.

“The topic of sustainability is part of our DNA. Our pledge to protect society and the environment using the group-wide protecting planet concept is derived from our ‘protecting people’ mission. This is why uvex holistically checks, evaluates and optimises all steps in the value creation chain, to ensure the best and most sustainable uvex product possible,” said uvex.

From the upper to the sole, the new uvex 1 G2 planet offers both sustainability and performance. In accordance with standard DIN EN ISO 14021:2016, the uvex 1 G2 planet consists of 25% recycled materials without compromising its protective properties and comfort, compared to the well-known uvex 1 G2 models. Many of the shoe's components, such as the upper and insole, are made from 100% recycled materials. In addition, uvex already uses some of its own PU waste for the production of the outsole: up to 10% has been used in the uvex x-tended grip planet.

In the UK, parcel delivery firm

DPD has partnered with footwear brand Rock Fall to create a new range of sustainable safety boots for drivers and other workers that require protective footwear.

The two new styles – the Rock Fall ‘Fly’ and ‘Bantam’ are S3 rated for safety but also contain up to 12 recycled plastic bottles in each pair. The upper fabric, pull on loops, laces and moisture wicking lining are all 100% recycled plastic, while the Bio EVA midsole is made from sugar cane oil rather than petroleum, and the footbed uses recycled foam offcuts.

DPD has initially bought 5,000 pairs of the Rock Fall boots, and the firm hopes to grow that number.

Richard Noon, director of Rock Fall UK, said, “We are at the very start of our journey into truly revolutionising the safety footwear industry, using the most sustainable materials and components, ensuring we are not only prioritising wearer comfort and longevity of our footwear, but also our planet. We are delighted that DPD will be adding this option to its PPE range.”

Another leader in sustainability in the footwear industry is Timberland, which has recently become a proponent of regenerative farming. Bert Spiller,

VP of product creation at Timberland Pro, said, “In fall 2021, we launched the Gridworks EK+ work boot made with leather sourced from farms using regenerative farming practices. We’re following this up with the fall 2022 launch of the men’s 6-inch Nashoba EK+ work boot.” Both styles feature Timberland’s ReBotl linings, made with at least 50% recycled polyester, as well as key safety features.

“Our circularity platform refurbishes worn products for resale, or, if they’re beyond repair, we take them apart and reuse or recycle the pieces into new materials,” added Spiller.

Emma Safety Footwear claims to have introduced the world’s first ever ‘circular’ safety shoes. Combining safety with sustainability, the shoes can be entirely recycled and all materials are 100% reused, for example in furniture, as building material and naturally in new safety shoes.

The shoes are made from partially recycled materials. The laces are 99% made from recycled PET bottles and certified by the Global Recycle Standard. The insole is made of 80% recycled foam. The Frontier soles contain 5% recycled TPU, and the TPU heel pieces contain an average of 30% recycled TPU. ♦

“We are at the very start of our journey into truly revolutionising the safety footwear industry, using the most sustainable materials and components.”

TECHNICAL REVIEW

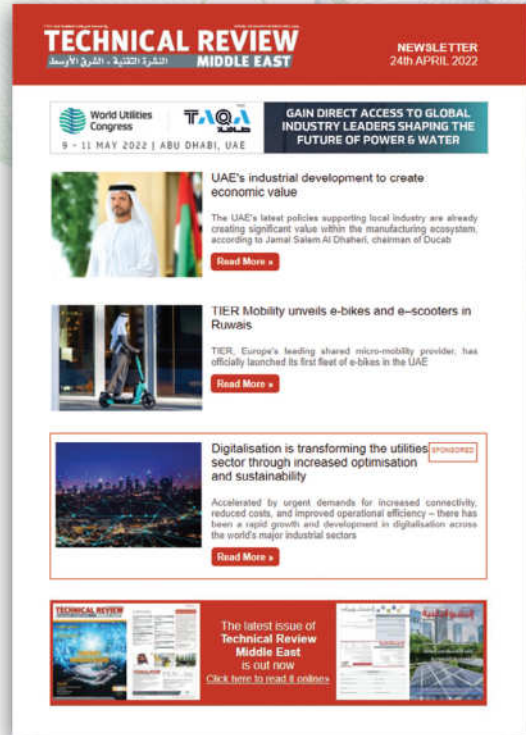
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Implementing respiratory protection

3M hosted a webinar dissecting the key role that respiratory protection plays in protecting workers' health beyond Covid-19.

“The timing of 3M’s analysis could not have come at a better time, coming off the back of two papers tackling the need for respiratory protection, but also the potential value this represents to the market.”

3M suggests a three-step approach to building a framework.

3M took to its event platform to host a webinar spotlighting the importance of respiratory protection frameworks across organisations to protect workers' health.

'How to implement a respiratory framework in your workplace' comes as Covid-19 restrictions are lifted across much of the world, and existing respiratory protection measures may also be falling by the wayside as organisations adapt to the 'new normal' and neglect best practise in the workplace.

The timing of 3M's analysis of respiratory frameworks could not have come at a better time, coming off the back of two pivotal Infogence Global Research papers not only tackling the key need for respiratory protection, but also the potential value this represents to the global market.

A 'Global Air Treatment Market (2021 to 2026)' research paper, featuring 3M among others, estimated an annual growth of 8.5% in the global air

treatment market, reaching US\$29.85bn worldwide by 2026. The paper highlighted the rising frequency of respiratory disorders such as asthma and chronic obstructive pulmonary disease (COPD), which is a major factor in driving the international demand for air treatment.

Rapid industrialisation, the growing fleet of automotive vehicles, especially in developing nations, and strict regulations on climate change are just a few of the factors coming into play and affecting respiratory health among the workforce.

Another paper, 'Global Air Filter Media Market (2022 to 2031)', estimated an annual growth rate of 2.8% in the air filter media market through 2031, with the recovery from Covid-19 inducing an understanding of just how important air filtration is to continued respiratory safety.

3M's George Elliot, the company's senior application engineer, dissected the need for adequate frameworks and technologies to be put in place to

protect workers not only against Covid-19, but any respiratory risks they may be exposed to while at work beyond the pandemic.

"When we're talking about respiratory protection programmes, we're talking about three steps: the detection of hazards within your workplace; the selection processes following this stage for proper air selection; and finally, protection, with a focus on educating staff.

"As we know from our hierarchy of controls, PPE should always be considered the last line of defense, after investigating and potentially implementing other measures to protect your workforce from any hazard."

The hierarchy of hazard controls ranks elimination, substitution, engineering controls, administrative controls, and, finally, PPE, as the hierarchical basis of any protective measures.

"Of course, in many environments, respiratory hazards cannot be controlled adequately using other control measures, and therefore

respiratory protective equipment is often considered and brought into control risk assessments,” noted Elliot.

Before implementing any frameworks, Elliot suggests a three-step approach: detection, selection, and protection.

“If you don’t know what hazards are in your working environment, it can be a real challenge to appropriately select respiratory protective equipment (RPE) and therefore know you’re protecting the workforce. As you begin detection, it’s important to know what hazards you’re dealing with.

“The identification and detection of the hazard at the start leads the selection and protection as you move through the process.

“The process of selection for RPE centres on two key considerations: is the protection adequate, and is the equipment suitable?

“When we’re looking at adequacy, we want to be making sure that the solution selected is right for the hazard and reduces exposure. Does the protection bring the hazard below workplace exposure limits?

“When it comes to suitability, this asks the question: is the solution suitable for the individual, for the wearer, for the task? It should never bring undue risk or issues to them.

“When considering selection of adequate solutions, we’re looking to understand what the concentration and type of hazard is in the working environment, and, as a minimum, what we need to reduce it by to be within the exposure limit and keep wearers safe.

“It’s so important to know exactly what kind of hazard is



Image Credit: Adobe Stock

The selection of appropriate respiratory protective equipment is critical.

present to choose the correct solution. Particulate filters won’t protect against gases and vapours, gas filters won’t solve oxygen deficiency in the environment.

“When it comes to protection, for each group of RPE equipment, there’s going to be a range of different protection factors,” he continued.

“What we’re asking is, what protection can the solution bring to the wearer? The concentration outside and the concentration inside the respirator or other piece of equipment is key.”

3M first established a dedicated Middle Eastern operation with its dedicated technical centre in Dubai, which began operations in 2011.

“The Dubai centre draws upon

“The identification of the hazard leads the selection and protection as you move through the process. It’s so important to know exactly what kind of hazard is present to choose the correct solution.”

George Elliot, senior application engineer at 3M.

3M’s global R&D strength and 45 technology platforms to provide solutions for local customers to experience all around the region,” explained Irfan Malik, senior VP for 3M’s Europe, Middle East and Africa operations.

“At 3M we have an expression that says ‘3M is always within reach.’ The centre, in addition to our Saif Zone Manufacturing Facility, demonstrates that we are investing in the local market while consistently producing innovative products for our customers.”

The company saw 4.5% growth across Europe, the Middle East and Africa according to its full-year results published in 2021. ♦

Safeguarding critical infrastructure

Intersec gathered a wealth of cybersecurity experts for its 'Safeguarding Critical Infrastructure' summit, including the director of the Digital Society Institute, Dr. Sandro Gaycken, senior security engineer at DEWA, Taha Hussain, and global head of cybersecurity at Petrofac, Shahab Siddiqui.

“Technology is so dynamic and in motion that it’s even harder to approach the problems posed by cybersecurity compromises...”

Dr Sandro Gaycken, Digital Society Institute

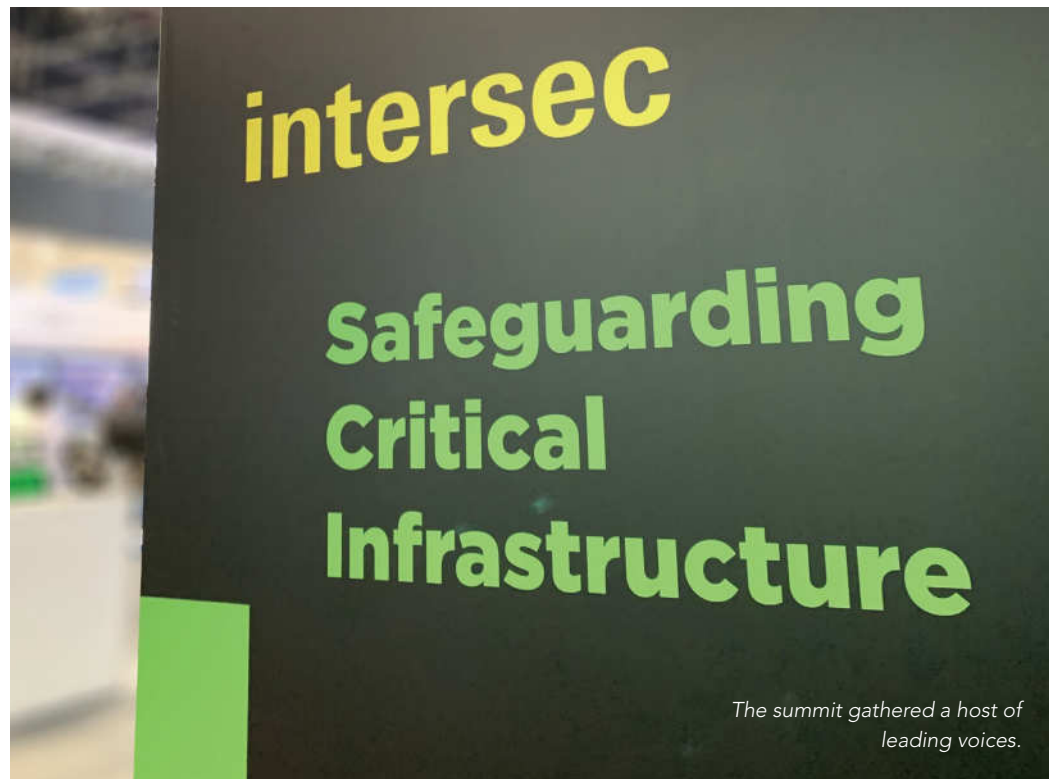


Image Credit: Alain Charles Publishing

Intersec 2022 took to the exhibition floors of the Dubai World Trade Centre from 16-18 January of this year to gather leading industrial voices from across the worldwide security landscape.

Among the booths and networking taking place across a number of exhibition halls, specific summits brought together various experts for panel

talks and question-and-answer sessions that shone a light on the industry’s state of play.

The event’s ‘Safeguarding Critical Infrastructure’ summit set a key backdrop for insightful panel discussions on the pressing risks facing organisations as the cyber landscape evolves, and the appropriate strategies companies must integrate to ensure they are protected from cyber threats.

Evolution of security strategy in transformative times: asking the right questions

Dr. Sandro Gaycken is the founder and director of the Digital Society Institute at ESMT Berlin, and has published three monographs on cyberwarfare. Dr. Gaycken took to the ‘Safeguarding Critical Infrastructure’ summit to elaborate on his own

organisation's approach to cybersecurity, the industry leaving gaping holes in its strategy, and the rising problems facing organisations operating in the digital landscape. His 'Evolution of security strategy in transformative times: asking the right questions' talk laid important groundwork for navigating the digital landscape in turbulent times.

Dr. Gaycken began, "We (organisations) are having large problems with cyber strategies... pouring endless money into it to implement necessary short-term solutions. While these may work well in the imminent future, organisations are still having problems with cyber attacks, security compromises and ransomware attacks. A look at new strategies is well deserved.

"The digital transformation is too much, too difficult, and too fast for many organisations to understand, keep up with and adapt to. Naturally, bringing appropriate responses to market is difficult, as sophisticated attackers quickly learn to bypass these responses.

"The next problem is the mid-to long-term implications of the digital transformation. It's limiting innovation in so far as the path dependencies and lock-ins grow.

"All these problems have become very complex for many organisations."

On future approaches and overcoming the existing issues, Gaycken elaborated, "Examining the many dimensions of cybersecurity is a key asset to an effective approach. Cybersecurity risks span entire technologies – while some are more vulnerable than others by nature, all are important to examine, risk assess and respond to.

"Part of the core problem is not understanding the risks to technical innovation that cybersecurity attacks propose – the systems that are the basis for compromises are not complex enough, without even considering the sophisticated nature of attacks.

"On top of all this, technology is so dynamic and in motion that it's even harder to approach the problems posed. Bad data, myths, the skewing of perspectives and gaping holes in organisations' knowledge bases must be resolved before an effective approach can be implemented."

On developing effective approaches, the founder of the Digital Society Institute continued, "The first thing I suggest is to establish a core competence base. Capable people with knowledge of offence can enable independent solutions to the prospective risks.

"Hiring or freelancing these technicians can be expensive – they're in high demand – but they're key to an appropriate response. Outsourcing cybersecurity may seem like an attractive option, but bringing this internally can guarantee attention and response to the holes in the strategy.

"Maximising the potential of these competence bases can help define critical areas of cybersecurity risk and build internal incident prevention and response procedures.

"This knowledge base of people can extend to a bank of competent response resources, which establish past responses, successful approaches and key takeaways from compromises and evaluations.

"Sharing this base across departments and companies can

expand the knowledge base of an organisation and make evaluation and implementation much easier."

Designing systems with the future in mind

Dubai Electricity & Water Authority (DEWA)'s senior security engineer, Taha Hussain, joined Petrofac's global head of cybersecurity, Shahab Siddiqui, to tackle the complicated dilemma of future-proofing systems against emerging threats in a constantly-shifting asset and digital landscape.

The panel, 'Designing systems with the future in mind', dissected how the next generation of end-user could benefit from a progressive approach to internal cybersecurity approaches.

Taha Hussain explained, "To protect critical infrastructure, we must protect the frameworks that surround them. Security postures are being left with gaps where technologies can be compromised and used against organisations. Processes and procedures must be in place to ensure organisations are impacted with the least disruption possible."

Siddiqui contributed, "If you know what assets are vulnerable, you must tailor an

"To protect critical infrastructure, we must protect the frameworks that surround them. Security postures are being left with gaps where technologies can be compromised."

approach to patch the risk and prevent exploitation. Asset visibility is a problem – the systems aren't mature enough for entire chain clarity."

On the flaws of many organisations' approaches, Siddiqui continued, "Many organisations favour reaction protocol over preventative processes. In many cases this leaves very basic vulnerabilities and compromises.

"The journey begins with risk assessment. Every asset category must be examined and risk measures established. A key part of risk assessment involves achieving visibility. Segment networks for clarity, and unify the IT or OT approach."

On response protocols, Taha Hussain explained, "Key for incident response is to establish the type of attack. Once that's understood, examine logs to discover root causes and feasible solutions to combat the compromise. Tools can analyse attacks and collateral in seconds and restrict access."

Siddiqui explained how this develops when attacks come from internal stakeholders, "The impact of insider attacks is a very important concern. These mainly fall into two categories, those who have or had access to systems and potentially cause a data breach, and those with malicious intent.

"There's often an unintentional nature to the former, with human error exposing systems. This is why, as always, the issue falls on the shoulders of sufficiently educating the workforce." ♦

Intersec will return to Dubai from 17-19 January 2023. See <https://intersec.ae.messefrankfurt.com>

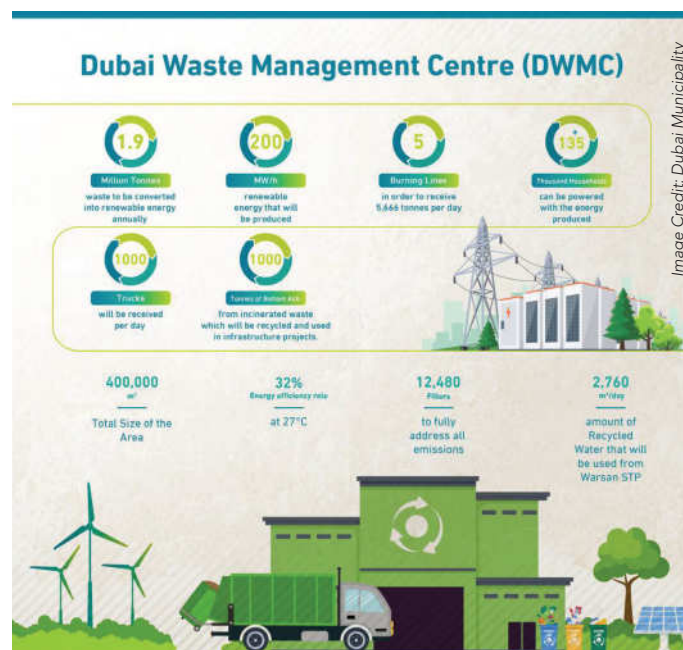
Sustainable waste treatment

The Dubai Waste Management Centre (DWMC) in Warsan, reported to be the world's largest and most efficient-energy project of its kind, is now 62% complete.

By 2024, the facility, which will contribute to the Dubai Clean Energy Strategy, will treat around 5,666 tonnes of solid waste across five burning lines daily, with 12,480 air filters to treat all emissions. The waste will be converted into energy, which will then be utilised to feed the local electricity grid with around 200 MW/h of clean energy.

Eng. Dawood Al Hajri, director general of Dubai Municipality, said that the strategic Dubai Waste Management Centre has sustainable development, economic and environmental dimensions. It is the first globally in terms of size and work efficiency. Occupying a total area of more than 400,000 sq. m, the plant will have an operational capacity to process 1.9mn million tonnes of waste annually and will be capable of converting them into energy resources to meet the needs of Warsan Sewage Treatment Plant and the DWMC.

Eng Al Hajri said, "At Dubai Municipality, we continue to implement strategic projects that focus on community welfare, environmental protection and sustainability of vital resources. We are pleased to announce the



progress in the construction of the Dubai Waste Management Centre, which is essential to Dubai's vision of becoming the world's most sustainable city. The plant will provide an alternative and sustainable solution to waste storage, and serve as a clean energy resource. It will help strengthen the emirate's position as one of the global cities at the forefront of sustainability, and increase its ability to attract investments, business and tourists."

Al Hajri added, "We are keen

"The plant will provide an alternative and sustainable solution to waste storage, and serve as a clean energy resource."

to employ state-of-the-art technical innovations and apply the best environment-friendly practices to improve the quality of life of our people, promote community health and safety, reduce emissions and address global warming. The new facility will add value to Dubai's development and will have a significant positive impact."

Once operational, the centre will treat 45% of the current municipal waste volume in Dubai. The plant is designed to accommodate 1,000 trucks per day, approximately 88 trucks per hour. The recycled bottom ash generated by the process will be used in infrastructure projects. The project will also use recycled water from the Warsan sewage treatment plant (STP), which will promote circular economy and sustainability.

The Dubai Municipality has implemented its action plans under the Dubai Integrated Waste Management Strategy, which aims to reduce and divert waste from landfills by 2030 and address the power needs of Dubai's growing population and economy. It aims to promote innovation in the management, recycling and conversion of waste into energy to achieve almost zero hazardous waste by 2041. ♦

Quick mooring release to reduce risk

Mooring systems

In order to reduce the significant safety risks associated with the manual emergency release of mooring systems during FPSO tandem offloading ocean towage, heading control, positioning and decommissioning, Gall Thomson has released the PODx (Powered Offshore Disconnect) – an innovative new automatic actuation system.

PODx minimises the risk of personnel injury, damage to equipment and subsequent downtime by remotely releasing mooring hawser chains under full load, quickly and safely. It utilises release bolt technology that automatically separates on demand, providing an identified parting point in the mooring line. This allows for a reliable release in under 100 milliseconds.

Designed for use in a variety of offshore applications including FPSO, emergency mooring release systems and anchor handling vessels, PODx uses a range of block and release bolt sizes specific to the load requirement.

Fred Boufennane, business development director at Gall



Image Credit: Gall Thomson

Mounted between two shackles, the PODx does not require drilling or fixing onto the vessel deck, making it simple to install or retrofit.

Thomson, said, “PODx is a simple and robust solution to a serious safety problem that has long been recognised as presenting significant risks to personnel and capital equipment. The technology is proven with more than 22 years of field experience, and its operational costs are substantially lower than traditional alternatives. PODx can be simply retrofitted on vessels without hot work or

permanent fixturing to the vessel deck from any danger zone.”

In addition to its performance characteristics, PODx provides cost effectiveness for operators, and with a unique design that ensures easy reset, is reusable after activation. Simple to maintain, with long maintenance-free periods, it can contribute to a reduction in insurance premium costs.

Jactone unveils PAFSS ILP fire suppression systems

Fire safety

The PAFSS Indirect Low Pressure (ILP) automatic fire suppression system has been released by Jactone to provide fire protection for cabinets and enclosures.

Enclosures can be found in practically every workplace, factory, warehouse or general commercial site and are often subject to increased risk of fire due to the presence of electrical equipment, communication machines, servers, etc. These fires can be difficult to identify and often it is too late when action is finally taken.

Jactone PAFSS ILP fixed fire suppression systems provide protection inside enclosures and discharge at the heart of the fire to quickly suppress it and prevent spread to neighbouring areas.

PAFSS ILP systems are automatic pre-engineered fire suppression systems that use much of the same technology as the Direct Low Pressure (DLP) systems. A DLP system is ideal for smaller enclosures, whereas the ILP system is designed for larger enclosures above two cu. m.

uvex launches stylish safety glasses

PPE

The new uvex suXXeed safety glasses are designed to combine stylish good looks with comfort, fit and protection.

The glasses feature a contoured wide angle lens together with the low profile frame which gives the equipment a sleek design that fits different face shapes and sizes.

The flexible nose pad and dual-component soft-grip side arms deliver high levels of comfort but also ensure that during intense

physical activity the glasses stay in place.

The inclusion of uvex’s supravision excellence coating technology ensures long-lasting and fog-free vision which protects product life.

uvex UV400 provides 100% protection against UVA and UVB radiation up to 400 nm for the eyes and surrounding skin, which helps minimise long-term damage.

Developed in the company’s manufacturing facility in Fürth, Germany, uvex’s pioneering

lens coatings deliver the best in German engineering and are permanent even after repeated cleaning. This offers greater cost benefits and customers can get on with the job at hand without any distractions from eyewear.

The optional clip-in frame is offered for additional protection against particles, dust and dirt.

The uvex suXXeed is available with clear or grey sunglare lenses in addition to the optional clip-in frame.

Emerson's gas processing silencer

Oil & gas

Emerson, the global technology and engineering company specialising in innovative solutions for customers in industrial, commercial and residential markets, has unveiled the Fisher™ WhisperTube Modal Attenuator. The solution, designed for noisy gas or vapour applications across a wide range of industries, reduces piping noise without significant pressure drop or reduced flow.

The modal attenuator is a full-bore device offering up-to-15-decibel sound suppression, reducing noise inside pipes produced by sources upstream, such as control valves or other devices.

The WhisperTube Modal Attenuator can be installed downstream of these types of devices in place of a pipe spool piece, generates no additional pressure drop, and has no impact on process flow.

Industrial applications for the modal attenuator include those where upstream process flows are changed by control valves,

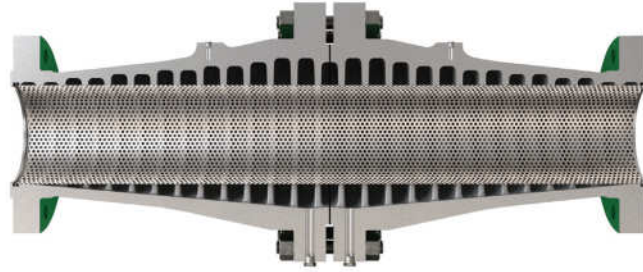


Image Credit: Emerson

The WhisperTube Modal Attenuator integrates acoustic cavities of various sizes surrounding a full-bore perforated tube.

pressure relief valves, pumps, compressors, and other devices that generate noise. Many of these devices must be installed in lengths of piping with no flow restrictions downstream, and the modal attenuator works particularly well in these applications because it introduces no such restrictions.

Unlike other noise suppression solutions, the modal attenuator does not introduce an obstruction into the piping, so it can be used in applications where particulates are suspended in process flows or where pigging is required for cleaning and

maintenance.

The exact amount of noise reduction depends on the frequency of the noise and the velocity of the flow. Estimates regarding the degree of sound suppression can be provided by Emerson experts prior to purchase and installation.

WhisperTube devices are offered in sizes from 2" to 12", with American Society of Mechanical Engineer (ASME) flange ratings of Class 150, 300 and 600. Pressure ratings match the flange rating sizes, and the maximum temperature is 700 degrees Fahrenheit.

Virsec delivers end-to-end cyber solution

Cybersecurity

Virsec has announced a new deterministic protection platform (DPP), defending against threats to software workloads and reducing threat actor dwell time to milliseconds.

DPP by Virsec protects workloads across entire runtime stacks, eliminates false positives when deployed on bare metal, virtual machines, containers or the Cloud.

"Security practitioners are exhausted at the failed promise of 'protection' when many vendors merely offer alerts after an attack on their applications. As we've seen with other recent attacks, this approach is not working," explained Dave Furneaux, co-founder and CEO of Virsec.

The full-application approach, protecting web, host and memory, ensures precision protection on new and legacy unpatched workloads, consolidated machines and containers.

Virsec's customer base spans healthcare, financial services, retail, energy and insurance.

Genetec simplifies move to hybrid cloud with Streamvault Edge

Physical security

Genetec, provider of unified security, public safety, operations and business intelligence solutions, is streamlining the migration of security equipment to a hybrid-cloud architecture with Streamvault Edge.

Edge is a new line of connected appliances, ideally suited for multi-site operations such as banking, retail and businesses with remote or unmanned sites. The line enables organisations to modernise security

infrastructure without disrupting operations. The appliance is a low-maintenance, easy-to-install edge device making the commissioning, deployment and management of connected remote sites simple and straightforward without the need for dedicated IT expertise.

At its initial launch, Streamvault Edge will focus on delivering a hybrid-cloud architecture for enterprise-grade video surveillance, with more security and Internet

of Things (IoT) devices to be supported in the coming months.

"This is just the beginning of a new edge platform strategy, and a more efficient way of delivering our solutions to customers. We are starting with video, but Streamvault Edge will soon evolve to power a broader range of capabilities, from access control to advanced operations technologies," explained Christian Morin, vice president of product engineering and chief security officer at Genetec.

Delivering tepid water in hot climates without the need for power

Decontamination

The award-winning Hughes Zero Power Cooler® is a maintenance-free cooling system for emergency tank showers.

EN15154 and ANSI Z358.1-2014 standards state that water delivered by a safety shower should be tepid. In extreme hot climates, solar radiation can heat water within the tank to dangerous levels.

The Zero Power Cooler, designed and developed in collaboration with Celantel, is designed to ensure the delivery of tepid water, as per ANSI Z358.1-2014 guidelines, even in the most challenging environments. The system works in two phases, whereby the night time ambient temperature is used to maintain the daytime temperature of the water, ensuring the delivery of safe and tepid water.

The Hughes Zero Power Cooler is perfect for remote locations, as no power or electricity is required. No moving parts means expensive service options are a thing of the past, while the innovative sealed system allows you to simply fit and forget.



The Hughes Zero Power Cooler.

Image Credit: Hughes Safety

An emergency tank shower fitted with the zero-power cooling system was installed and tested at an oil and gas operator's site in Khurais, Saudi Arabia. The unit was exposed to ambient daytime temperatures exceeding 50°C.

The shower was situated in an area exposed to sunlight from all sides, all day, without any shade. No power was supplied to the unit and there was no water connection to the tank shower.

1,500 litres of water was supplied to the tank shower via a hose. The supplied water temperature exceeded 41°C from

the site's water main. After just 16 hours, the water temperature inside the tank was at a safe enough level to be used. The insulation of the tank combined with the cooling system maintains water at temperatures below the required limits of ANSI standards.

Visit www.hughes-safety.com/hughes-zero-power-cooler and try our carbon calculator tool to determine your carbon savings based on retrofitting the Zero Power Cooling System versus traditional chillers.

Troxel launches Air XS Silica Monitor for real-time monitoring

Occupational health

Troxel has announced the launch of the world's first real time detector for silica particulates, the Air XS Silica Monitor.

Silica is the biggest risk to construction workers after asbestos, from the inhalation of silica dust particulates in the workplace. An estimated 600,000 workers are exposed to silica each year in the UK. Yet silicosis is entirely preventable, and the Air XS Silica Monitor is set to revolutionise worker safety within the construction industry by delivering real-time detection of dangerous respirable crystalline silica (RCS) particulates in airborne dust mixtures, on the job.

The Air XS Silica displays the presence of RCS mass by volume, while also being able to distinguish the presence of RCS within dust mixtures. It can track changing concentrations of RCS content over time, letting workers know if the amount of RCS in their workspace is increasing as they work, and when it has risen to dangerous levels. The Air XS Silica Monitor allows for programming of on-device exposure limit thresholds and warnings allowing for easy customisation of monitoring limits as needed.

Glyn Pierce-Jones, Troxel CEO, said, "This is an exciting product in real time silica dust monitoring. The Air XS is a global-leading solution to an increasing health problem in many industries.

"Real time silica monitoring is the safest and most cost-effective way to promote workers' health in the industries associated with RCS."

New valve cover lock launched

Oil & gas safety

GD Energy Products (GDEP), the leading total solutions provider for the drilling, well servicing and frac pumps market, has launched SafeLock, a hammerless quarter-turn valve cover lock for drilling modules. SafeLock delivers safer and faster removals, without requiring any tools. Durable and hammerless, SafeLock eliminates safety hazards and increases operational efficiency by reducing the multiple revolutions needed to remove the valve

cover lock to a simple quarter-turn. Corrosion resistant threading and grease zerks keep threads lubricated between service intervals. A robust handle design increases leverage and ergonomics.

Ryan Huseman, lead engineer, GDEP, said, "SafeLock's mechanical lock design eradicates the need for hydraulic pumps, torque wrenches, drills and impact guns. We have essentially converted a dangerous multi-minute process to a tool-less and hazard-free 10 seconds."

SAFETY & SECURITY Buyers' Guide 2022

The Middle East's annual where-to-buy guide

Section One: Listings by category

Section Two: International and regional suppliers

Section Three: Contact details of Middle East agents & subsidiaries listed by country

Categories

Access Control Systems

REDA Hazard Control

Airport Security

Cova Security Gates Ltd

CCTV & IP Cameras

REDA Hazard Control

Corporate Security

Cova Security Gates Ltd

Emergency Alarm and Warning Systems

REDA Hazard Control

Fire fighting Equipment

BAUER KOMPRESSOREN GCC FZE

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Fire Prevention and Protection

BAUER KOMPRESSOREN GCC FZE

REDA Hazard Control

Gates & Fencing

Cova Security Gates Ltd

REDA Hazard Control

Others

Cova Security Gates Ltd

DAMOTEK SRL UNIPERSONALE

Hughes Safety Showers Limited

Port Security

Cova Security Gates Ltd

Suppliers



Aqua Safety Showers

Redgate Road
South Lancashire Industrial Estate
Ashton-in-Makerfield
Wigan
WN4 8DT
United Kingdom
Tel: +44 (0) 1942 318096
Web: www.aqua-safety.com
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Aqua Safety Showers are an independently-owned UK manufacturer of emergency safety showers and eye wash equipment. With over 50 years experience serving the water, chemical, oil and gas industries, we are proud to offer a full range of standard and bespoke safety units to suit any requirements.

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For over 50 years, Hughes have kept workers safe. Our company was born of innovation in site safety and has been at the forefront of emergency safety shower, eye/ face wash and decontamination equipment design and manufacturing ever since.



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 Dubai, UAE
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 Fax: +971 566 543 800/ +91 949
 7709
 E-mail: sales@bbconme.com

Sabz International

2nd Floor, Office £21, EMITAC
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Oil Review

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الإجراءات اللازمة في وقت مبكر، ووضع موازنات المشاريع التي تتضمن هذه التكاليف، قد يعود بالنفع الكبير على الأعمال. فمستوى الأمن المطلوب يؤثر على الموازنة. وعلى سبيل المثال، قد تقتضي الضرورة الاستعانة بحراس مسلحين أو مركبات مصفحة إذا كان المشروع في منطقة عالية الخطورة. وقد تتراكم هذه التكاليف بمرور الوقت، لا سيما إن كانت غير متوقعة.

وينطبق هذا أيضا على عمليات الإجراء الطبي. إذ يضمن التخطيط المناسب أن يتم التعامل مع أي حوادث بكفاءة وبشكل فعال من حيث التكلفة قدر الإمكان. فعند وقوع إصابة ما، قد تتجاوز التكاليف المالية، والأضرار التي تلحق بسمعة الشركة، التكاليف التي كان يمكن تخصيصها لإجراء عمليات تحليل إدارة المخاطر الأمنية والطبية قبل بدء المشروع. وعلى هذا، فإن التعاون مع خبير خارجي لاستكمال عمليات التقييم، قبل البدء في تنفيذ المشروع، يعتبر أمراً بالغ الأهمية.

اختيار شريك إدارة المخاطر

يضع شريك إدارة المخاطر - نصب عينيه - زيادة مستويات الأمن، مع المحافظة على تنفيذ برنامج فعال من حيث التكلفة. ويجب أن تُظهر الشركة الخبرة والمعرفة العميقة وتشارك في الدراسات والتوقعات الأمنية والتقارير الاستخباراتية. هذا فضلا عن الدراسات الاقتصادية الصحية للدولة.

نوصيك بالبحث عن برنامج مخصص. فإذا كانت الخطة ذات التصميم الفريد تبدو أكثر تكلفة من الحلول الجاهزة، فإنها تضمن استخدام الحلول الطبية والأمنية المناسبة تماما للمشروع.

ماسة إلى التوعية المستمرة والاستعداد الجيد.

مزايا التخطيط

هناك مزايا عديدة لإدماج إدارة المخاطر الطبية والأمنية خلال مرحلة التخطيط للمشاريع، وهي:

- خفض معدلات الحوادث المُبلَّغ عنها: تساعد خطط إدارة المخاطر الطبية والأمنية الشركات في تجنب وقوع الحوادث قدر الإمكان وتطوير آليات الاستجابة المناسبة عند وقوعها.
- تحسين النتائج الصحية: يضمن الاستعداد والتدريب قدرة الطواقم الطبية المتواجدة في الموقع على التدخل المباشر في حالات الطوارئ، والمساعدة في استقرار حالة المرضى، وإجلانهم سريعا بشكل آمن عند اللزوم.
- حماية الأصول: تُحيط الفرق الأمنية، التي تلقت التدريب الكافي والملائم، عمليات السرقة والتخريب وتمنعها، مما يساعد في عدم تجاوز التكاليف المقررة للمشاريع.

- المساعدة في تعيين الموظفين والاحتفاظ بهم: يعكس إدماج خطة منظمة للمحافظة على سلامة الموظفين اهتمام الشركة بموظفيها.
- الارتقاء بسمعة الشركات: يبرهن اتخاذ نهج استباقي للمحافظة على الصحة والأمن والسلامة، على حنكة الشركة ويتيح لها خفض حدة المخاطر، مع الالتزام بالمواعيد والموازنة المقررة.

تكلفة التخطيط

هناك بعض الشركات التي لا تراعي إدارة المخاطر الأمنية والطبية إلا بعد إبرام الصفقات. غير أن اتخاذ

الأعطال الكارثية عند استخدام المعدات الثقيلة. ذلك لأنه في الصناعات المرتبطة بالبناء والتشييد، قد تنقلب الرافعات، أو تسقط الحمولات، أو يحدث خلل في البنية التحتية الداعمة. كذلك تشكل الشفرات الثقيلة والشاحنات العملاقة والارتفاعات الشاهقة، تهديدات غير مسبوقه في مجال الطاقة المتجددة. وقد تؤدي كل هذه الظروف وغيرها إلى وقوع الإصابات الخطيرة أو الوفاة لعدد كبير من الأفراد في الحال.

وتحدد إدارة السلامة والصحة المهنية أربعة أسباب رئيسية للوفاة والإصابات للعاملين في قطاعات البناء والتشييد. و«مسببات الوفاة الأربعة» هذه مسؤولة عن ثلثي الحوادث القاتلة. وتشير إدارة السلامة والصحة المهنية إلى أن القضاء على مسببات الوفاة الأربعة من شأنه إنقاذ أرواح ما يقرب من 631 عاملا أمريكيا كل عام. وفيما يلي أسباب الحوادث المسببة للوفاة:

- 1 - السقوط: يشكل السقوط من على ارتفاع أو من على معدات البناء 38,7 في المائة من حالات الوفاة بين العمال.
- 2 - الاصطدام بالأجسام: يصاب 9,4 في المائة من العمال بإصابات قاتلة من جراء الاصطدام بأجسام في موقع البناء.
- 3 - الصعق الكهربائي: يبلغ معدل الوفيات لعمال البناء بسبب الصعق الكهربائي 8,3 في المائة.
- 4 - الاحتباس: لقي 7,3 في المائة من عمال البناء الأمريكيين حتفهم من جراء الاحتباس بين مكونات أو مواد الماكينات.

وقد أظهرت تحقيقات إدارة السلامة والصحة المهنية أنه يمكن منع أغلب الحوادث المرتبطة بتشغيل المعدات الثقيلة. وإذا كان التركيز المتزايد قد ساع على حل هذه المشكلات في خفض معدلات الوفيات، لا تزال هناك حاجة

مفكرة الفعاليات 2022

مايو/أيار

19 - 16	المؤتمر والمعروض العالمي للصحة والسلامة والبيئة	مسقط	www.globalhse.org
19 - 17	معرض السلامة والصحة	لندن	www.safety-health-expo.co.uk

سبتمبر/أيلول

7 - 6	منتدى الشرق الأوسط وشمال أفريقيا للصحة والسلامة والبيئة	دي	www.bse-forum.com
23 - 20	معرض إسبانيا للمعدات الأمن	إسن/ألمانيا	www.security-essen-de

أكتوبر/تشرين الأول

11/3 - 30	معرض أدبيك	أبو ظبي	www.adipec.com
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المشروعات الصناعية تتطلب منهجاً فريداً في إدارة المخاطر

إدارة المخاطر الطبية والأمنية

دانكان هيغام، الرئيس التنفيذي لشركة ريموت ميديكال إنترناشونال، يلقي الضوء - في هذا المقال - على المشهد الحالي ويبرز المزايا الممكنة لاتباع نهج فعال في إدارة المخاطر الطبية والأمنية في عالم مليء بالمخاطر. ومع تطور أساليب إدارة المخاطر المبتكرة بشكل مستمر، أصبح تقييم مخاطر المشاريع وتأمينها وإدارتها يكتسب أهمية غير مسبوقة.

الموظفين بشكل استباقي، وتوفير الدعم الطبي في حالات الطوارئ.

وتعتبر إدارة المخاطر الطبية وثيقة الصلة بإدارة المخاطر الأمنية. إذ تهدف كليهما للمحافظة على صحة وسلامة الموظفين. على سبيل المثال، لنفترض حدوث مشكلة طبية يتمخض عنها موقف ينطوي على خطورة عالية، مثل تعطل أحد الأجهزة أو وقوع حادث. في تلك الحالة، تتولى إدارة المخاطر الطبية مساعدة الشركة في الاستعداد، وذلك بتوفير المساعدات الطبية في الموقع وإجراء عمليات الإجراء الطبي بسرعة وكفاءة.

والشركات، التي تستخدم معدات ثقيلة في مواقع العمل، تمارس أعمالها في بيئات ذات خطورة متوسطة إلى مرتفعة. وهناك زيادة ملحوظة في احتمالات حدوث

المخاطر، حيث سيقام المشروع، وتقديم التوصيات بشأن أفضل الأساليب التي يمكن اتباعها.

فمن الناحية الأمنية، قد يلجأ هؤلاء الخبراء إلى إجراء عمليات استكشاف محلية، وإجراء تحليل للوضع الراهن، والتعاون مع الفرق الطبية المحلية والشرطة وفرق الإغاثة والإسعاف والمسؤولين الحكوميين والجيش. وفي إطار التقييم، يستهدف الخبراء تقييم المنشآت الطبية وتحديد بروتوكولات الاستجابة في حالات الطوارئ لديها، وتحديد مواقع أفضل الموارد للحصول على الدعم الطبي على الصعيدين المحلي والإقليمي. بالإضافة إلى ذلك، يفحص هؤلاء الخبراء موارد الدعم الإضافية، ويرفعون تقريراً بالنتائج، ويقدمون التوصيات لتخفيف المشكلات وتعزيز سبل الحماية. هذا إلى جانب المحافظة على صحة وسلامة

يُقدر مديرو البرامج ومديرو المخاطر مزايا تطبيق أساليب إدارة المخاطر على المشاريع. ويساعد تطوير خطط لإدارة المخاطر - بكفاءة عالية - الشركات على تجنب المشكلات عالية الخطورة، وتجنب الخسائر في المال والوقت. تتسم هذه الخطط بأهمية كبرى في الصناعات التي تستخدم معدات ثقيلة؛ مثل صناعة التعدين والبناء والتشييد، فضلاً عن مشاريع البنية التحتية الضخمة.

وفي بعض الحالات يكون من الأفضل الاستعانة بشركة متخصصة في إدارة المخاطر، لا سيما إدارة المخاطر الأمنية والطبية. فهما مجالان مهمان يتطلبان الحماية. فالخطط الطبية من شأنها إنقاذ الأرواح، أما الخطط الأمنية فتوفر الحماية للمعدات والمنشآت الأساسية وذات التكلفة المرتفعة. إذ يتولى خبراء تابعون لأطراف أخرى تحليل

فني هذا العمود ...



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