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Health, Safety & Security Review

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Middle East

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editor's note

WITH URBAN WASTE in the Middle East set to double by 2025, ambitious waste management programmes are underway in the region. There is a need to ensure that occupational safety and health capabilities and standards that have been developed within others industries are brought to waste management (see p10). We also highlight the importance and benefits of high-quality fall protection training (p16). And with recent drone incursions at airports in the UK and Dubai underlining the importance of protecting critical infrastructure from security threats, we look at some of the technologies that are coming to the fore in this area (p24).

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EFRC receives Institution of Fire Engineers (IFE) accreditation

Cyber safety

The Emirates Fire and Rescue Company (EFRC), a leader in the field of fire life and safety consultancy, has been accredited by the Institution of Fire Engineers (IFE) as one of its Recognised Training Providers (RTPs) in the GCC. EFRC is the first UAE company within its industry to hold the IFE accreditation, which is considered one of the highest recognitions in the field.

EFRC provides basic and customised training courses on key topics such as fire and evacuation drills as well as National Fire and Protection Association (NFPA) courses. Three of the EFRC courses, namely basic firefighting, advanced firefighting level one, and advanced firefighting level two, received the IFE approval.

“The EFRC dedicated significant time and effort to implement the IFE standards and requirements across all its branches in the Northern



Image Credit: EFRC

Ibrahim Al Hammadi, CEO of EFRC.

Emirates. During this period the company has raised the level of its training programmes to meet the international organisation’s criteria,” said Ibrahim Al

Hammadi, CEO, EFRC.

“Part of our strategic approach is to focus on expansion and growth within our sector, while aligning our strategy with the government’s development programmes. Through our services we aim to raise the level of safety and prevention among all facilities, corporations, entities and individuals on the grounds of the UAE.

“Being granted the accreditation leaves a great impact on our portfolio, allowing us to stand out among prominent industry players and add greater value to the public and stakeholders we serve,” he added.

“We aim to refocus our efforts in 2019 to strengthen our internal operations, while maintaining our business to reach regional and international markets by 2020. We aim to forge international accreditations and acknowledgements to ensure that the EFRC is fully equipped to fulfil its mission and deliver on its commitment,” Al Hammadi said.

CSD launches ‘Cyber Safety Ambassadors’ initiative for youth

Cyber safety

The Child Safety Department (CSD), a subsidiary of Sharjah’s Supreme Family Affairs Council, has launched the ‘Cyber Safety Ambassadors’ initiative.

The aim is to provide Sharjah children and youth with the necessary skills and training to deliver internet security awareness workshops to their peers and colleagues.

The initiative was launched in collaboration with a number of federal and local entities, including the UAE Telecommunications Regulatory Authority (TRA), Ministry of Community Development (MOCD), Khalifa Empowerment Programme – Aqdar, and Sharjah Police Headquarters.

The initiative focuses on educating and training the UAE’s youth about cyber safety best practices through an intensive training programme that follows a self-learning and instructor-led approach.

VIVA Bahrain to provide managed cybersecurity services

Cybersecurity

Telecom firm VIVA Bahrain has signed an agreement with Yusuf Bin Ahmed Kanoo Group (YBA Kanoo), one of the independent family-owned multinationals in the Middle East, to provide managed cybersecurity services.

The agreement includes providing 24/7 cybersecurity monitoring of YBA Kanoo facilities and businesses in Bahrain, Saudi Arabia and the UAE.

“Due to the emerging threats in cybercrimes and attacks worldwide in



Image Credit: VIVA Bahrain

The aim is to provide managed cybersecurity services to YBA Kanoo businesses across the region.

addition to the ISO 27001:2013 information security implementation, YBA Kanoo have tied up with VIVA to provide the managed cybersecurity monitoring and alerting service through VIVA Security Operations Centre (SOC), the first in the kingdom to provide managed security services (MSS) for businesses equipped with a team of certified, trained and experienced cybersecurity experts operating 24/7,” said Fawzi Ahmed Kanoo, deputy chairman of YBA Kanoo Group.

Adhere to UAE Fire & Life Safety Code

Fire safety

AESG, specialist engineering and consultancy practice in the Middle East, has urged that existing properties in Dubai implement the UAE's updated Fire and Life Safety Code.

While its implementation rate among new properties has steadily increased, AESG warns that existing properties must do more to follow suit.

At this month's Fire and Façades Forum in Dubai, director of fire and life safety at AESG, Peter Van Gorp outlined the vital challenges UAE developers face in ensuring fire and life safety.

"We see building owners grappling with the complexities of retroactively implementing the necessary changes to already approved constructions and fire safety systems. And even once this has been addressed, there is the question of ensuring the operability and maintainability of these systems," he added.

While overcoming these hurdles may seem daunting, he advises that the payoff is significant since adherence to the



Peter Van Gorp.

UAE fire code could 'reduce the risk of potential loss of life or property damage by a factor of 100'.

The company advocates the involvement of a fire safety specialist to design and execute the necessary measures to ensure compliance with the code for both new and existing developments. In addition, AESG recommends periodic safety inspections by certified third-party fire safety engineers as a requirement to ensure proper maintenance and operation of implemented systems.

Image Credit: AESG

"Civil defence authorities in the UAE have done an excellent job of promoting the revised code and making it easily accessible to anyone who wants a copy. The onus is now on developers to engage with competent fire engineers right from the initial design stages," he stated.

"For all new projects that AESG is involved in, we make sure fire safety systems are made a priority and work closely with architects, façade engineers and other teams as a coordinated effort is vital to success," he explained.

Belarmino Cordero, head of façade engineering at AESG, considered that the newly defined accountability in the updated UAE Fire and Life Safety Code will benefit the country's built environment.

"Ensuring code compliance in design and construction is now a shared responsibility between consultants, manufacturers, contractors and owners. The code clearly stipulates what the responsibilities are and puts in place the necessary control procedures," Cordero concluded.

Emergency response drill

Airport safety

An emergency response exercise was carried out at Bahrain International Airport in March, featuring a simulation of a fire breaking out on an aeroplane just before take off, according to a report in *Gulf Daily News*.

Around 180 people, including actors playing the part of injured passengers, took part in the drill, which was a collaborative effort between Bahrain Airport Company (BAC) and Gulf Air. In co-operation with the Interior Ministry.

"With just months to go until the inauguration of the new Passenger Terminal Building, this was the most significant drill to date," BAC chief executive Mohamed Al Binfadah was reported as saying. "It provided an excellent opportunity for all to test procedures, roles and responsibilities before key changes regarding emergency planning will be implemented through the new terminals's Operations Readiness and Airport Transfer (ORAT) trials," he added.

DMCA implements 'Safety of Life at Sea' awareness campaign

Maritime safety

The Dubai Maritime Training Centre of Dubai Maritime City Authority (DMCA) has concluded an awareness campaign entitled 'Safety of Life at Sea and Social Responsibility', with strong participation from marine drivers and operators.

The campaign included a series of educational activities focused on defining maritime safety and enhancing awareness of the best response to emergencies.

Abdullah Bin Touk, director of marine

inspection, DMCA, said, "The maritime authority is committed to spreading awareness amongst the community about the importance of using safety equipment whilst driving marine vehicles and exercising and using the sea."

"This will enable them to take precautionary measures to avoid potential risks during emergencies and contribute to improving maritime safety standards."

Mohammed Khalifa Al Huraiz, director of waterway control, DMCA, commented,

"Maritime safety is of paramount importance and is a key cornerstone for attracting more qualitative investments to support growth and economic diversification."

"We at DMCA are constantly working to meet the highest standards and best practices in the field of maritime safety, within the framework of cooperation and continuous coordination with our strategic partners from the public and private sectors."

Byrne boosts investment in its hoists and access portfolio

Access Equipment

Byrne Rental Equipment has made a significant investment of US\$16.34mn into new hoist and access equipment, to meet demand in the GCC region.

This was revealed when the company hosted its first 'Hoist & Access' Product Day in its Dubai Industrial City facility in March.

This access fleet forms an important and growing part of Byrne's 10,000-plus strong fleet of mechanical and non-mechanical plant.

Attended by around 83 partners and distributors across the UAE, the event showcased new hoists and access products from GENIE and JLG as well as providing a chance for Byrne to familiarise their customers with their product range.

Speaking to *Technical Review Middle East*, Gareth Conley, general manager at Byrne Equipment Rental UAE, revealed, "In late 2017, we invested in a new product portfolio – the hoist and mast climbers, due to the



Image Credit: Byrne Equipment Rental

Byrne has invested US\$16.34mn into new hoist and access equipment.

increasing number of construction projects in the GCC.

"The access equipment business includes hoist and mast climbers, powered access and low level access. The low level access equipment can suitably replace scaffolds and step ladders, thus minimising the risks associated with heights.

"The revival of the construction market and the need for safer equipment has driven our move in this area. We have listened to our customers and recognised the gap for newer access machines with advanced health and safety features. So we decided to seize the opportunity," Conley added.

Conley maintains that the increasing number of investments as well as Byrne's reputation for service and reliability will give an added boost to the access equipment market, which, in turn, will boost the group's related product portfolio that includes lighting, power generation, modular buildings, compressors and associated services.

Byrne Equipment Rental offers a broad range of access equipment through its strategically located 20 operational depots and offices throughout the GCC, including the UAE, Saudi Arabia, Bahrain, Oman and Kuwait.

UAE Civil Defence teams undergo training

Training

UL has hosted a training session for UAE Civil Defence inspection teams and briefed them on international codes and standards requirements for the design, installation, testing, inspection and maintenance of fire pumps.

The event, which took place at the Civil Defence Academy in Abu Dhabi, saw officials representing Civil Defence departments from each emirate carry out detailed inspections and testing of a wide range of fire pumps and related equipment.

During the training programme, experts from UL held detailed workshops to advise officials on how to spot counterfeit equipment and the importance of brand protection.

Hamid Syed, vice-president and general manager of UL for the Middle East, said, "The training programme was an opportunity for UL's team of highly trained experts to meet with Civil Defence teams and senior officers."

Alba Line 6 smelter achieves 30mn working hours without LTI

Safety

Aluminium Bahrain (Alba), one of the world's leading aluminium smelters in terms of safety and health, has announced the safety milestone of 30mn working hours without Lost Time Injury (LTI) by its Line 6 smelter.

A ceremony to mark this milestone was held on 10 March 2019.

The ceremony was attended by Alba's deputy CEO Ali al Baqali, chief marketing officer Khalid Latif, chief power officer Amin Sultan, director at Line 6 Smelter Project and



Image Credit: Alba

Alba celebrates big Line 6 safety milestone.

Engineering Shawqi Al Hashimi, and director at Safety, Health and Environment Mohamed Khalil, Line 6 Smelter Project team along with other contractor teams.

This achievement underlines Alba's strong commitment to safety and the 'Extreme Ownership' of safety by its employees and contractors.

→ events calendar 2019

April			
9-11	The Health & Safety Event	BIRMINGHAM	www.healthandsafetyevents.co.uk
14-15	Health, Safety & Environment Forum Bahrain	MANAMA	www.hse-forum.com
14-16	Intersec Saudi Arabia	JEDDAH	www.intersec-ksa.com
June			
18-20	Safety & Health Expo / FIREX / IFSEC	LONDON	www.safety-health-expo.co.uk
September			
3-4	Kuwait Health, Safety & Environment Forum	KUWAIT	www.hse-forum.com
24-25	Oman Health, Safety & Environment Forum	MUSCAT	www.hse-forum.com
October			
21-23	OFSEC	MUSCAT	www.muscat-expo.com/ofsec

Readers should verify dates and location with sponsoring organisations, as this information is sometimes subject to change.

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Growing waste industry needs positive safety culture

NEBOSH head of qualifications and assessment, David Towlson, spoke to Health, Safety & Environment consultant Amitabh Bhattacharya about working in the Middle East waste industry, including the challenge of fostering a positive health and safety culture.

“The accident rates in the waste industry can be around four times higher than other sectors, with the number of fatal incidents being up to ten times higher.”



Image Credit: Ivan Tsykunovich/Adobe Stock

Economic expansion and a growing population have led to a significant increase in waste in the Middle East in recent years. According to data from the World Bank Group, Bahrain, Kuwait, Qatar, Saudi Arabia and UAE now rank among the highest solid waste generating countries per capita in the world, with urban waste in the Middle East to double to 370,000 tonnes per day by 2025. As a result, ambitious waste management

projects have been developing across the region leading to an ever-expanding waste management industry.

Figures from the Health and safety Executive (HSE) in the UK suggest that accident rates in the waste industry can be around four times higher than other sectors, with the number of fatal incidents being up to 10 times higher. This makes fostering a positive health and safety culture within the emerging waste

industry in the Middle East particularly important.

Health, Safety and Environment consultant, Amitabh Bhattacharya, has worked within the oil & gas and waste industries in the region. He said, “Middle Eastern countries need to ensure that the occupational safety and health capabilities and standards that have been developed within other industries are also brought to waste management.”

Urban waste in the Middle East is set to double by 2025.

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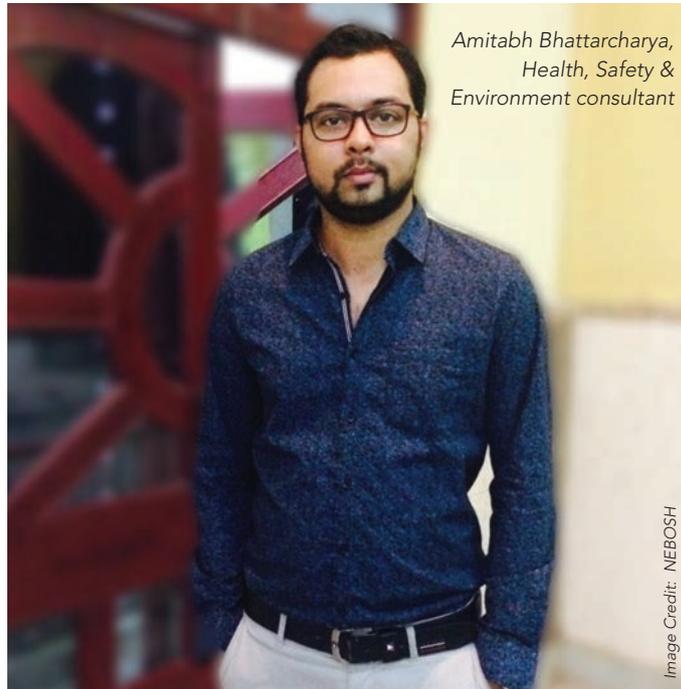
Amitabh needed to adapt his own skills and knowledge to waste management back in 2017 when he got the opportunity to work as HSE manager for Global Environmental Management Services (GEMS) in Saudi Arabia. Previously, he had worked for more than seven years as a health, safety and environmental professional within the oil and gas industry for global top tier oil companies, such as Halliburton, Baker Hughes, a GE Company and L&T Hydrocarbon Engineering.

At the time, he had just achieved the NEBOSH International General Certificate in Occupational Health and Safety. As well as helping him gain his new position, Amitabh told us his NEBOSH qualification proved invaluable in an entirely different way.

“I was given HSE responsibility for two different sites, one a waste recycling centre in Dammam which was fully operational, and another in Jubail which was under construction,” he said. “So this, in effect, was two entirely new fields of operation for me. My NEBOSH International General Certificate was fresh in my mind and what it gave me more than anything was a way of applying the knowledge and experience I had gained within oil and gas to these very different and challenging new surroundings.”

Training and accountability

As well as his own formal training, Amitabh stressed the importance of training at “ground zero” level within the waste industry in order to ensure a positive health and safety culture.



Amitabh Bhattacharya,
Health, Safety &
Environment consultant

Image Credit: NEBOSH

“Ensuring health and safety is implemented in accordance with procedures is where the waste industry needs to be most vigilant, in my experience. For example, when a truck driver transports hazardous waste from Jizan to Dammam, a distance of around 1,600 kilometres, to carry out disposal and recycling at the facility, things like driver hazardous chemical spill response training, defensive driving, pre-checks and transportation protocols are just a few of the things needed.”

However, equally important is management commitment to health and safety, according to Amitabh: “One of the key aspects is having management realise the benefits and importance of what health and safety brings overall to the organisation, as well as the consequences for failing to do so.”

“For me, making an individual accountable for his or her actions can be a game changer. It is accountability that tends to make

people think twice before making random decisions which lack any kind of positive impact and which also create negative energy among staff. Accountability, linked to the core goals of the organisation, can be critical.

“In-house training at all levels, which not only focuses on procedural improvement but also helps to demonstrate to all key stakeholders the impact of a shift in cultural safety, is what has led to results where I have worked.”

Compliance and regional conditions

Amitabh pointed out an important aspect relevant to Saudi Arabia in particular, which is the implementation of the Royal Commission Environmental Regulations (RCER) for the waste industry.

“It is essential to comply and adhere with the complete regulations as mentioned in RCER as there are often random checks carried out by Royal

Commission and Presidency of Meteorology and Environment officials to ensure the same,” said Amitabh. “Key areas where action is required are hazardous waste materials storage and transportation, and controls on volatile organic compounds for storage tanks. To meet these environmental regulations, it is necessary to have effective safety systems in place.”

As well as local compliance issues, Amitabh highlighted unique conditions within the Middle East region that need to be taken into account, particularly extreme weather.

“Harsh conditions can sometimes make it difficult to have routine work carried out,” he said. “Summers being extremely hot makes hazardous areas and flammable areas more prone to catching fire or lead to an emergency situation. Same goes with winter, where fogs on roads create driving hazards and cause devices to malfunction or sensors to stop working. Planning is the key to dealing with such situations.”

Cultural benefits

Amitabh concluded: “Creating a positive health and safety culture in any industry can be challenging. However, I believe by highlighting the benefits at all levels, not just in terms of keeping people safe from harm, but also including more effective productivity, an increase in business and better industrial relations can inspire everyone to achieve improved standards.”

The waste industry is becoming increasingly important in the Middle East. We must do everything we can to keep people who work within it both safe and healthy.”

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The Red Wing PetroKing 3208 safety boot.

Image Credit: Red Wing

Red Wing PetroKing safety footwear #3208

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The Dickies Cleveland safety boot.

Image Credit: Dickies

Dickies Cleveland safety boot

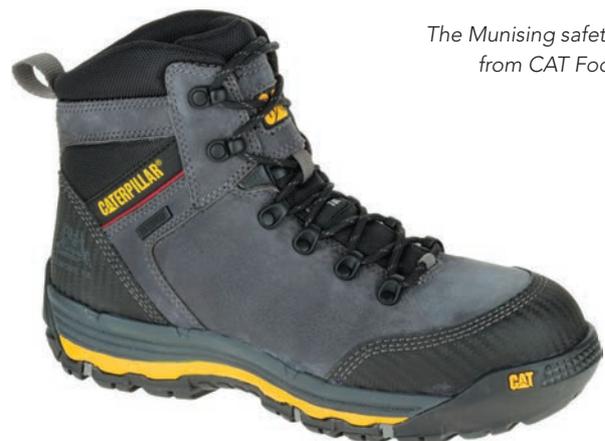
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The Munising safety boot from CAT Footwear.

Image Credit: CAT Footwear

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The importance of high quality fall protection training

Investing in fall protection training is a must for employers responsible for the safety of those working at height, and brings wellbeing and business benefits, says Phil Rashbrook, European training manager for Fall Protection at MSA Safety.

“It is so much more than simply showing them how to put on a harness”



Image Credit: MSA Safety

Quality training should encompass both theoretical and practical aspects.

According to the Association for Talent Development, companies offering comprehensive employee training have a 218 per cent higher income per employee than companies that do not.

The benefits of quality training are obvious, yet it is often overlooked. It should be an essential part of any business, especially when employees are working at height and faced with

potentially significant risks. Unfortunately, fall protection training remains largely unaudited, and not all providers offer top quality training – and that is what is needed in order to add real value to your business.

What does top quality training look like? In a nutshell, it is teaching people comprehensively how to work safely at height, which includes so much more than simply showing them how

to put on a harness, for example. Quality training should implement a holistic approach, with a focus on both theoretical and practical training.

Theory may include, for instance, an overview of legislation and best approaches, including comprehensive risk assessment processes, the technical aspects of working at height and additional emergency considerations.

It is then a case of putting that knowledge into practice. This could include the fitting of harnesses, knowing which lanyards to select and how to use them, and generally ensuring that the correct fall protection equipment is being used in the right way.

One of the most important by-products of quality training is improved confidence, both in knowing the limitations of the equipment and how to use it properly, and in making the right decisions while working at height. Armed with this confidence, people working at height should feel empowered to thoroughly and accurately assess their surroundings for safety risks, ask questions and raise potential safety concerns with their site or safety manager.

Something that is often forgotten is the value of keeping training fun and engaging. In my experience, if you enjoy training you will learn and retain more information. An enjoyable experience generally helps to nurture a positive change in attitude.

The location of the training is really important. If possible, it is best to train people on their own site. This makes training lifelike and realistic, and therefore more relevant to them. The best providers should always offer bespoke training that is tailored to each business's unique environment and work scenarios. This can be achieved by a provider with a vast wealth of experience across a wide array of sectors.

If it is not possible to carry out training on site, then the next best option is a state-of-the-art training centre with both indoor facilities which are protected from inclement



Image Credit: MSA Safety

weather, and outdoor facilities with multiple applications.

Added benefits from quality providers

Typically, with top quality training come additional benefits, such as assistance with developing and implementing rescue plans. These crucial plans outline how to rescue people in the event of a fall from height. It is a legal requirement for businesses to have rescue plans in place for those working at height, and legislation recommends that businesses should be capable of dealing with this and not be reliant on the help of the fire and

rescue service.

Follow-up support is an important feature of a quality training provider. After initial training has been delivered, a provider should offer the option of return visits and continued support, including site audits to ensure that the benefits of training are being realised.

Importantly, quality training also helps with the creation of safety ambassadors who spread their safety knowledge throughout their company. Employees who complete engaging, comprehensive training can go back to their workplace feeling empowered, and able to

competently relay all that they have learnt.

A sound investment in training

When choosing the right training partner for your business, it is important to consider all of the above, because you cannot put a price on the safety of your workers. While it may be cheaper to use a less experienced and less expensive provider in the short-term, there are, of course, long-term disadvantages.

You may not have the assurances that the training you have bought has really reached your employees and helped motivate them to become safety ambassadors for your business. Follow-up support is likely to be minimal, if it exists at all, and the provider is unlikely to offer the valuable bespoke, tailor-made training that sufficiently meets your unique needs.

Investing in a top-quality training programme delivered by an experienced specialist provider will undoubtedly not only bring tangible business benefits, but improve the general wellbeing of your workforce. Our aim at MSA Safety is to help make the world a safer place by providing people with high quality training. In doing so, we offer businesses the peace of mind that their employees leave us feeling better informed and well prepared to work safely at height. If you invest in the best training available, you too will find that peace of mind. ❖

MSA Safety offers a wide range of fall protection training courses, including PPE: competent person inspection, basic rescue, advanced rescue, and fall protection awareness. For more contact training.eu@msasafety.com.

Safety & Health Expo leads the way

Taking place from 18-20 June in London, the UK's largest health and safety event is designed to help professionals adapt to the constantly changing health and safety profession by providing education, training and one-to-one advice on latest legislation, technologies, trends and developments, in addition to access to products and solutions across occupational health, well-being, PPE and more.

Inspirational speeches will complement a comprehensive agenda of world-leading health and safety content at Safety & Health Expo



Image Credit: UEM

The UK's largest health and safety event will welcome national and international attendees across all sectors, including construction, government, manufacturing and health.

Safety & Health Expo, the UK's biggest event for the health and safety profession, is taking place at ExCeL London from 18-20 June 2019.

The show gives thousands of international industry professionals access to the latest innovative products, services and solutions, together with a world-leading programme of CPD-accredited seminars, as the

show drives change in proud partnership with IOSH, HSE, NEBOSH and RoSPA.

New products and services from 300+ world-leading suppliers

More than 300 leading suppliers, including MSA, Draeger, Eurofins and IKAR will showcase a vast range of products and solutions across PPE, site safety, hazardous

materials, hygiene, lone worker safety and more.

Workplace Well-being Show

Visit the Wellbeing Theatre to learn about mental health and the law and get advice from Mind; plus experts from IWFM will share ideas on how to encourage workplace wellbeing at the Wellness Wall; and sample salad boxes and delicious protein



Jonny Wilkinson

power bowls in the Healthy Eating Café.

PPE Attack and Safety Technology Zones

In the new PPE Attack Zone, protective equipment and workwear will be put under scrutiny with real-time testing. Discover the difference between basic pass grade PPE, and equipment with high industry standards to keep workers safe.

The Safety Technology Zone is set to demonstrate the opportunities and risks of new technology and digital solutions, including robotics and AI. Exhibitors include The Parallel, Luminous Group and Blackline Safety Europe. Hear how Sainsbury's have used data for predictive analytics and risk and find out how exo-skeletons are impacting health and safety.

CPD Accredited Seminars

The event will host presentations from a rugby legend, a sporting icon and an expert reporter, whose diverse experiences can

provide key lessons for health and safety professionals. The speeches will take place across all three days of the event.

The first speaker is reporter and journalist Steph McGovern, who will discuss her journey from working as an apprentice engineer at Black & Decker in Durham to becoming an award-winning financial journalist and BBC household name. Her presentation will precede an afternoon of activities hosted by the Women in Health & Safety network, a popular returning feature facilitating networking and celebrating the success of women within the profession.

The second speaker is Michael Edwards, better known as Eddie the Eagle, whose heroic underdog efforts in the ski jumping competition at the 1988 Winter Olympics have earned him a place in British sporting legend. Eddie's keynote speech will focus on risk and safety, drawing on his experience competing in a

dangerous sport, as well as the value of courage and hard work against insurmountable odds. He has key lessons for health and safety professionals, but his story of perseverance is a universal one.

The line-up is completed by England rugby hero Jonny Wilkinson, who helped the country to a World Cup title in 2003. Jonny shares stories and lessons from his long and successful professional career, but it's the honesty with which he has grappled with his mental health struggles during and since the end of his career that makes this presentation essential for a profession increasingly concerned with workplace well-being.

Operational Excellence Theatre

The 'do's and 'don'ts' of technical health and safety, including a lawyer's view on safety compliance and incident management; roles and responsibilities for working at



Michael Edwards

height; and a valuable session on procurement.

Leadership Forum

With a focus on career progression and business leadership, hear how Severn Trent Water transformed their risk management and safety culture; plus specific sessions such as "What is the future of the health and safety profession" and "Psychological safety for leaders: Creating working environments where it's easy to ask difficult questions".

Industry Awards

This year, Safety & Health Expo will play host to the RoSPA Awards, and the SHP Rising Star Awards, which return for their fifth year.

Visitors will also have free access to three co-located shows, IFSEC International, FIREX International and the Facilities Show. ❖

To find out more and register for your free ticket, visit safety-health-expo.co.uk today.



Steph McGovern will be speaking at this year's Safety & Health Expo.

Watching that extra mile

IDIS captures the Middle East market with hi-tech and cost-effective solutions. Jamil Alasfar, senior sales manager, IDIS Middle East, tells us more.

“NCB is using IDIS technology for one of the biggest financial surveillance system upgrades ever seen in the region, involving at least 1,000 NVRs and more than 2,500 IP cameras.”

Saudi Arabia's NCB chose an IDIS solution to modernise its security and comply with the latest standards introduced by SAMA and the Ministry of Interior.



Beginning this year, security camera and surveillance expert IDIS launched a range of inexpensive, high-performance 2MP cameras for

applications that demand zero-compromise surveillance quality within a tighter budget.

The new value range includes full HD dome and bullet cameras

and still comes with many of the high-end features found in IDIS's best selling products – including analytics, superior night time image capture, protection against

image data loss, as well as dual codec combined with IDIS Intelligent Codec to deliver significant bandwidth and storage savings.

Premium built-in features include IDIS Smart Failover as well as video motion detection, active tampering alarm and trip zone analytics, not normally found at this price point.

The cameras deliver superior picture quality even at night, with IR image capture, and true wide dynamic range (WDR) in varied lighting conditions.

Speaking about the new range, Jamil Alasfar, senior sales manager, IDIS Middle East, stated that the users also benefit from significant savings in storage, with IDIS Intelligent Codec dual H.264/H.265 technology, delivering up to 90 per cent reduction in bandwidth demand without any need to upgrade existing monitors and hardware.

The new range is targeted at small-to-medium surveillance challenges, including security and health and safety, in commercial applications such as retail, offices and residential blocks.

For integrators, the cameras have been developed with ease-of-installation as a priority. The three-axis mechanical design ensures more flexibility in mounting, and faster system set-up is achieved using DirectIP NVRs and PoE.

According to a recent study, the commercial security segment, which includes video surveillance, intrusion detection solutions and access control, remains the biggest market. Worth around US\$2.9bn in 2018, the market in the Middle East will expand to US\$7.4bn by 2024 as infrastructure investments and regulatory policies provide support.



Jamil Alasfar is the senior sales manager at IDIS Middle East.

Image Credit: IDIS

As the physical security market continues to grow, the trends continue to evolve keeping in touch with times and regulations. Explaining what governs the surveillance industry today, Alasfar said that there is an increasing demand for bigger storage and better resolution.

“The market in the GCC is looking for cameras with 5MP or more. This has to do with increased construction activities in the UAE, Bahrain, Kuwait and Egypt. The regulations too are becoming stringent from a surveillance perspective. This is reflected on the manufacturer who has to comply with what the customer wants.”

Alasfar added that IDIS Middle East has been looking to open new markets for a year, namely Jordan, Egypt and Kenya. “We already have a stronghold in the banking and education sectors in Saudi Arabia, Bahrain and Kuwait.”

Speaking about its biggest market, Alasfar cited the project for Saudi Arabia’s National Commercial Bank (NCB). NCB is

using IDIS technology for one of the biggest financial surveillance system upgrades ever seen in the region, involving at least 1,000 NVRs and more than 2,500 IP cameras. The bank, which serves more than 5.4mn customers and is the second largest in the Arab world, chose an IDIS solution to modernise its security and comply with the latest standards introduced by the Saudi Arabian Monetary Authority (SAMA) and Ministry of Interior, he added.

NCB, also known as AlAhli Bank, needed NVRs that would provide RAID 1 and RAID 5 support, and a solution that would allow integration of both IP and existing analogue infrastructure, and the capability to cost-effectively store video footage for a full year.

Leading solutions provider Almajal G4S was appointed, and following a competitive tender process IDIS technology was identified as performing better than alternatives in detailed and rigorous proof-of-concept testing.

Thanks to its hybrid capability, IDIS technology allows analogue

and IP cameras to be used together, making the upgrade project easily manageable, with a seamless, staged switch-over.

For this mission-critical project, IDIS’s Linux based servers and proprietary protocols also offered the highest level of resistance to hacking, while zero-configuration eliminates the need to manage IP addresses for every device, all of which gave NCB the network security assurances they were looking for.

An important consideration for NCB was IDIS Intelligent Codec. This gives the bank significant, on-going savings allowing compliance with video data storage rules.

Providing the lowest total cost of ownership, the IDIS solution will allow efficient maintenance and simultaneous remote upgrades for multiple devices and gives NCB the assurance of the industry-leading IDIS Ultimate Warranty.

The project is due for completion in 2019, NCB and the associated IDIS solution will be the first to achieve full compliance with the new SAMA standards. ♦

Record turnout for Intersec

The 21st edition of Intersec, held from 20-22 January at the Dubai International Convention and Exhibition Centre, attracted 34,854 visitors from 126 countries, a 20 per cent increase over the previous year.

Organised by Messe Frankfurt Middle East, the leading trade fair for security, safety and fire protection featured 1,212 exhibitors from 54 countries, six show sections, 15 country pavilions, live outdoor demonstrations, a drone zone, and the new Future Security Summit.

Andreas Rex, Intersec's show director, said, "We put in a lot of effort into making this edition of Intersec the most comprehensive yet in terms of increasing the diversity of our exhibitor range and offering a more engaging conference format, while at the same time returning with improved popular highlights such as the outdoor live demonstration area.

"A lot of exhibitors used Intersec 2019 to not only announce important strategic business partnerships, but to launch their latest products for the global marketplace."

Dubai Police unveiled a hydrogen-powered drone which will be used to survey mountainous and marine areas, while Dubai-based Bristol unveiled the latest innovative firefighting technologies, including a UAE-built fire truck, fire suppression systems and powerful water pump solutions.

"Smarter and safer cities were important themes"



Image Credit: Messe Frankfurt

Nearly two-thirds of the world's top 50 security manufacturers were on board, including Hikvision, Dahua, ASSA ABLOY, Bosch Security Systems, Axis Communications, FLIR Systems, Hanwha Techwin, Avigilon, VIVOTEK, CP Plus, Nedap, Milestone Systems and KEDACOM.

Meanwhile, smarter and safer cities were important themes, underlined by a Memorandum of Understanding signed at the show between Smartworld, a UAE systems integrator, and Honeywell Building Solutions to implement digitally transformed, sustainable, safe and efficient buildings across the UAE.

Attracting a lot of attention on

the show floor were AI-based security and surveillance systems with applications across safe city and smart home security systems.

High-definition IP-Network cameras and analytics software used across various industries ranging from banking and retail to hospitality and oil & gas were also among those drawing greatest interest.

According to analysts 6Wresearch, the regional market for physical and perimeter security, commercial and information security, fire protection, and drones, is currently estimated to be worth US\$14.5bn, and is estimated to grow to US\$31bn in 2024. ❖

Business discussions at the show.

Innovation and expertise go hand-in-hand for Rostaing

PPE

Pioneer and manufacturer of ultra-high performance gloves Rostaing displayed its customised and new launches for the Middle East market at Intersec 2019.

Designed for the firefighting and rescue operations, the new range of protective gloves is innovative and stylish. The gloves are made of Nomex fibres that are heat and flame-resistant. But Rostaing has included invisible air pockets in the fabric that expand when the temperature increases, thus ensuring thermal protection and high mechanical performance. Secondly, washable leather makes the gloves resistant to wear and tear.

For emergency situations, the conductive fabric of the gloves also lets the users interact with smartphones.

Another invention from Rostaing is the metal detector glove range – Scanforce. As security intensifies across the globe, law and order personnel



Image Credit: Rostaing

Stephane Rostaing

are looking at new mobile security measures. Scanforce can detect objects as small as a paperclip.

The patented French design and technology can detect sensitivity at a distance of up to 5cm and the control box is invisible to the naked eye. Ideal for prisons, checkpoints and

hospitals, the gloves improve the effectiveness and filtering options.

For president Stephane Rostaing, the Middle East presents a lot of opportunities in both segments. “We have three factories in Morocco and a big clientele in the region that include Abu Dhabi Civil Defence, Dubai Civil Defence and Dubai Police. We have a stronghold in the defence and the health, security and safety segment.”

With exclusive dealers, the French firm now wants to penetrate the Saudi Arabian market, the largest PPE market in the region. According to Rostaing, the HSE standards are getting better given the international exposure. Which is why the company is looking at more partners in the kingdom. “As the consumers become more aware of the technology, durability and quality overtake cost control. We are more determined to find the right connect in the region.”

Dahua launches smart and safe city concept in Dubai

IoT

Dahua Technology, provider of video-centric smart IoT solutions and service provider, introduced its Heart of City (HOC) strategy at Intersec 2019 in Dubai.

Xin Chen, general manager of Dahua Technology Middle East FZE, shared the new strategy.

First released at Security China 2018, Dahua Heart of City is a smart city development engine supported by sensing, intelligence, computing and ecosystem capabilities. It realises the construction of a 1 platform, 2 centres, N applications (1+2+N) new smart city framework for application at city, industry and commercial level.

The strategy combines the company’s innovations, top-level business planning, detailed network design, and operation services to promote city development via end-to-end solutions with supporting technologies such as AI, deep learning and IoT.

BIOEX’s biodegradable foam concentrate is easy on environment

FIRE SAFETY

France-headquartered ecological foam concentrates manufacturer BIOEX is a dedicated supplier to Riyadh Civil Defence and Kuwait Fire Services in the Middle East.

BIOEX participated at Intersec 2019 in Dubai to meet with partners and prospective customers in the Middle East region.

In 1998, BIOEX introduced ECOPOL, the world’s first fluorine-free foam concentrate. This ecological foam concentrate is formulated using a 100 per cent natural surfactant base and can be used to put out all types of class A and B

fires. Its multi-application versatility does not prevent the high effectiveness of its extinguishing capability. ECOPOL, a versatile, synthetic AR foam concentrate effectively replaces the use of AFFF (aqueous film forming foam) foam concentrates, which are harmful to the environment.

Talking about the increased sustainable efforts with regards to the environment, managing director Olivier Houlbert said that with more stringent regulations in place, BIOEX has an upper hand in marketing its products. “We adhere to the Registration, Evaluation, Authorisation and

Restriction of Chemicals (REACH) regulation of the European Union, adopted to improve the protection of human health and the environment from the risks that can be posed by chemicals, while enhancing the competitiveness of the EU chemicals industry. The adoption is slowly but steadily reaching this region.”

BIOEX also selects the raw material for the concentrate itself, therefore emphasising on the quality it manufactures. The concentrate is ideal for industries such as firefighting, oil and gas, petrochemicals and airports. BIOEX also sells standard fire protection foam concentrates.

security



Image Credit: Adobe Stock

Critical infrastructure: threats, vulnerabilities and solutions

The shutdown of airports in Dubai and London caused by unauthorised drone activities has highlighted how crucial it is to protect critical infrastructure from security threats. Nonalyuka Nongrum reports.

“There are countless opportunities and problems waiting to be solved by video analytics, as the computing power of IP cameras continue to improve.”

Gaurav Kemka, director of CP PLUS

IP-enabled digital surveillance cameras can be used effectively to identify and eliminate threats in advance.

The homeland security market in the GCC region is witnessing significant growth in the wake of incidents such as drone security breaches. The growth is further fuelled as the local governments in the Middle East build smart cities, creating a market for security solution providers.

The homeland security market includes monitoring and surveillance systems, restricted entry systems, and perimeter security solutions. Saudi Arabia remains a top spender in this sector, followed by Qatar and the UAE. Kuwait and Oman also lead the spending, undergoing major infrastructure projects.

Monitoring and surveillance:

Demand for monitoring and surveillance solutions continues to be a major trend in securing people, premises and property. Market research firm Frost and Sullivan predicts this sector to reach US\$9.5bn by 2022, considering the upcoming Dubai Expo 2020 and Qatar FIFA World Cup 2022.

Perimeter security systems with surveillance and restricted entry systems gained momentum, following the terrorist attacks in 2015 across the MENA region, such as the Tunisia attacks.

And with several cultural and political infrastructure projects

underway in the region, demand has risen for smart surveillance in public places as it can help in real-time analytics such as face detection and vehicle number plate identification.

Additionally, IP-enabled digital surveillance cameras can be used effectively to identify and eliminate threats in advance. Sensor-based thermal cameras in the oil and gas industry can help to reduce false alarms by accurately sending signals and identifying threats.

“There are countless opportunities and problems waiting to be solved by video analytics, as the computing power of IP cameras continues to

improve. Benefits will be seen across multiple sectors, from assisting intelligence agencies to local retail outlets, and perhaps, in the future, a fully predictive surveillance system may be a reality,” said Gaurav Kemka, director of CP PLUS, a video surveillance equipment manufacturer.

Biometric systems:

The GCC plans to improve internal security. A major part of the security investment will be allocated to assist local law enforcement. The Middle East is expected to make a significant contribution to the growth of biometrics in law enforcement applications.

Inkwood Research stated that the UAE biometrics market will progress with the highest CAGR. This is due to the growing infrastructure and construction market. UAE already has the world’s biggest biometric database, which contains more than 135mn fingerprint, hand/palm prints and facial images of residents.

Saudi Arabia, however, dominates this market in terms of revenue generation. This growth is due to shifting government reforms, growing business and trade establishment, emerging IT industry, and various government initiatives. As part of its initiatives to protect critical infrastructure, the Dubai Police recently purchased BIO-key’s biometric authentication solution for internal network log-in and to secure access to critical data.

Mike DePasquale, chairman and CEO, BIO-key, noted, “World-class organisations across all verticals are increasingly taking action to incorporate enhanced security measures in



DroneGun Tactical from DroneShield provides a safe countermeasure against a wide range of drone models.

Image Credit: DroneShield

order to protect high value data and meet compliance guidelines. Our biometric security solutions stand out due to their strong security attributes, performance, user convenience and minimal impact on workflows.”

Cybersecurity:

Saudi Arabia and the UAE have experienced some of the world’s most serious cyber attacks in recent months, prompting them to launch vital digital initiatives to safeguard their critical industries, in particular the oil and gas sector.

The oil and gas industry has changed significantly over the past decade. Big data, analytics, sensors and the ability to automate highly sensitive tasks have increased efficiency with increasing connectivity in the digital age and the Internet of Things (IoT). This means the industry remains vulnerable to cyber attacks.

In January, Italian oil and gas contractor Saipem reported a cyber attack on their servers in

Saudi Arabia, the UAE and Kuwait. The Middle East servers of the UK-based Petrofac also faced cyber attacks.

Such incidents have prompted Saudi Aramco to set up a joint venture with US defence contractor Raytheon to develop and deliver the best-in-class cybersecurity services in Saudi Arabia and the region.

Khalid H. Al-Dabbagh, Saudi Aramco senior vice-president of finance, strategy and development, commented, “Demand for cybersecurity services is expected to grow as companies move further into the digital space and embrace technologies such as the Internet of Things and big data.”

Anti drone:

The latest threat to critical infrastructure comes from commercial drones – or unmanned aerial vehicles (UAVs). They pose a number of risks. UAVs can, for instance, transport explosives to a nuclear power station or perform cyber

attacks, cause disruptions or even steal sensitive data.

Markets and Markets Research predicts that the anti-drone sector will grow globally to US\$2.27bn by 2024, and the Middle East is a prospective market due to its concentration of civilian and military aviation facilities.

Australian anti-drone security company DroneShield has signed a memorandum of understanding with Saudi Arabia’s Public Telecommunications Co. The aim is to commit to the exploration of the potential for collaboration on counter-unmanned aerial vehicle (C-UAV) opportunities for government customers in the Middle East.

Waleed Mutter, STC Specialised’s CEO, stated, “We have partnered with DroneShield after a careful review and consideration of the counter-drone market. We look forward to working on our strategic objectives with DroneShield while helping protect the kingdom and its allies from aerial threats.” ❖

SECURITY Buyers' Guide

2019

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

Al Kurdi Trading and Contracting
ASME ACCESS & SECURITY MIDDLE EAST
CEM Systems
Gallagher Security Middle East DMCC
Remsdaq Ltd

Airport Security

CEM Systems
Iomniscient
ROSTAING
WildFaces Technology Ltd

Alarm Systems & Management

Baldwin Boxall
Gallagher Security Middle East DMCC
ProCom Professional Communication & Service GmbH
XAFER Security Components

Associations, Education and Training

BRE Global Ltd. (LPCB)

Card Readers

ASME ACCESS & SECURITY MIDDLE EAST
CEM Systems
Gallagher Security Middle East DMCC
Remsdaq Ltd

CCTV & IP Cameras

Al Kurdi Trading and Contracting
ASME ACCESS & SECURITY MIDDLE EAST
Everlux

Iomniscient
WildFaces Technology Ltd
XAFER Security Components

Certification & Accreditation

BRE Global Ltd. (LPCB)

Corporate Security

CEM Systems
Cova Security Gates

Digital and Network Surveillance

ASME ACCESS & SECURITY MIDDLE EAST

Drones

Iomniscient
WildFaces Technology Ltd

Electronic Access/Entrance Control

Al Kurdi Trading and Contracting
ASME ACCESS & SECURITY MIDDLE EAST
Building Defence Systems
Gallagher Security Middle East DMCC
Remsdaq Ltd

Emergency Alarm and Warning Systems

Baldwin Boxall
Everlux
ProCom Professional Communication & Service GmbH
Safety Technology International Ltd

Fire fighting Equipment

Al Kurdi Trading and Contracting

DELANNOY FRERES
Everlux
Firelion Global
FirePro Systems
ROSTAING
Vanzetti Equipment SRL Unipersonale

Fire Prevention and Protection

Al Kurdi Trading and Contracting
Baldwin Boxall
BRE Global Ltd. (LPCB)
Everlux
Firelion Global
FirePro Systems
ROSTAING
Safety Technology International Ltd

Gates & Fencing

Building Defence Systems
Cova Security Gates
Remsdaq Ltd

Intruder and Burglary Detection and Alarm Equipment

Gallagher Security Middle East DMCC
ProCom Professional Communication & Service GmbH
XAFER Security Components

Mechanical Turnstiles

Building Defence Systems

Others

BRE Global Ltd. (LPCB)
Building Defence Systems
Cova Security Gates
Everlux

Hughes Safety Showers Limited
Kaso Oy
ProCom Professional Communication & Service GmbH
Safety Technology International Ltd
Vanzetti Equipment SRL Unipersonale

Port Security

CEM Systems
Cova Security Gates

Reconnaissance, Surveillance and Guarding Services

Iomniscient
WildFaces Technology Ltd

Rescue

FirePro Systems
ROSTAING

Secure Communications

ProCom Professional Communication & Service GmbH

Security Screening

Building Defence Systems
Iomniscient
WildFaces Technology Ltd

Surveillance Equipment

ROSTAING
XAFER Security Components

Threat Detection

Remsdaq Ltd

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Hughes Safety have been at the forefront of emergency safety shower, eye/face wash and decontamination equipment manufacturing for over 50 years. We can provide customized industrial safety shower solutions to suit all applications, in all industry sectors and environments. Contact us today for details of our distributors.

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Intersec Saudi Arabia returns for its third edition

Safety & Security

The third edition of Intersec Saudi Arabia will take place at the Jeddah Centre for Forums & Events from 14-16 April 2019.

The Kingdom's leading event for safety security and fire protection will feature a wide range of products and services for the safety and security industry, covering the areas of commercial security; information security; fire and rescue; safety and health; homeland security and policing; and perimeter and physical security.

With 73 per cent international participation, the dedicated showcase addresses the growing demand for an integrated platform that provides crucial access to one of the most promising markets in the world.

The organisers Messe Frankfurt state that due to the geopolitical situation and the announcement of the start of numerous infrastructure projects supported by the government sector, the Saudi market is showing strong growth potential for security products.

Saudi Arabia's government has adapted the upgrading and modernisation of current infrastructure as a priority area and has stated



The event will feature a wide range of products for the safety and security industry.

it as one of the main policy steps to mitigate the economic impact of lower oil prices.

According to recent industry reports, the combined value of the Saudi Arabia's commercial security, fire and safety and homeland security markets was US\$6.02bn in 2017, while the Saudi Vision 2030, stabilisation of oil prices and increase in government spending will all play a positive role in industry growth over the next few years.

The 3rd edition of Intersec Saudi Arabia

will host a series of forums that will provide insights on the latest innovative technologies and approaches that can contribute to an integrated vision for safety, security and fire protection, prevention and mitigation. These are the Intersec Fire Forum, Intersec Security Forum and IAEM (International Association of Emergency Managers) workshop.

For further information see the website at www.intersec-ksa.com.

Protecting against arc flash

Flame-resistant clothing

Wearwell have launched an arc flash protection and flame-resistant clothing range using advanced fabric technology. The major new launch comes under the UK workwear manufacturer's Tecwear label and is among the most advanced workwear of its kind, according to a company statement.

Steve Hill, sales and service director from Wearwell, said, "Creating workwear that can protect against arc flash exposure has meant working closely with fabric manufacturers and wearers. We have spent 12 months fully immersed in this area of PPE as we seek to understand how we can mitigate this hazard without compromising on comfort. In doing so, we have designed a brand-new range of workwear able to withstand extreme temperatures of up to 12,000°C, explosive forces, emission of plasma, fast-moving debris and hot liquids."

Tecwear's PPE workwear features superior fabrics and



Image Credit: patrapes5413/Adobe Stock

The new flame-resistant clothing range protects against arc flash.

designs that enhance wearer comfort and protection. This new range includes a two-tone coverall, jacket, and two sets of trousers. A supporting range of arc and FR protection underwear has also been developed to ensure complete head-to-toe protection.

The new Tecwear arc from Wearwell protects covers, jackets, pants and base layers that meet British and European

safety standards.

Each garment in the collection is manufactured in accordance with Article 11b legislation, and all arc protection garments have been subjected to strict BTTG testing and certification. Tecwear arc protective clothing is accredited and complies with the latest IEC 61482—protective clothing against electric arc thermal hazards.

Anti-icing system

Offshore safety

nVent Electric, an electrical connection and protection solutions provider, has launched nVent RAYCHEM ArcticStep, which provides reliable ice protection for offshore platforms, vessel walkways and deck surfaces in the oil and gas and marine industries.

Equipped with nVent RAYCHEM self-regulating heat tracing cables, the unique hybrid structure of the ArcticStep is designed to minimise heat loss and energy consumption. Its lightweight construction allows for quick and easy installation, reducing the fitting time and overall installation costs.

Customised to provide safe and reliable ice protection in harsh corrosive environments, the system features a robust metallic plate and fibre-reinforced polymer supports, as well as delivering galvanic and thermal insulation from the deck surface, to ensure system longevity. Integrated cable channels also protect power supply cables from sustaining mechanical damage, and a protective anti-slip coating helps prevent slips and falls.

New Cleanroom fire curtain

Fire protection

Coopers Fire has launched a new FireMaster Cleanroom fire curtain, which offers two hours of fire resistance and allows designers of cleanrooms the flexibility to help create open plan environments already afforded to more traditional manufacturing facilities.

The FireMaster Cleanroom has been fire tested as part of Exova Warrington's CERTIFIRE scheme. Additional tests for cleanroom suitability were also carried out in

Germany at the Fraunhofer Institute for Manufacturing Engineering and Automation.

Cleanroom environments are needed in a variety of industries such as pharmaceutical, microelectronics, aerospace, food, medical and telecoms. To prevent contamination during the manufacturing process, cleanrooms place stringent controls on the level of environmental pollutants such as dust, airborne microbes, aerosol particles, and chemical vapours. This is usually specified by

the number of particles per cubic metre at a specified particle size.

FireMaster Cleanroom fire curtains can be used to replace fire rated walls and doors maintaining compartmentation, thus allowing for open plan designs and to protect non-fire rated walls and glazing and openings in walls. As such they can be used to protect escape routes, providing time for people to escape. They can also offer property, equipment and external boundary protection.

Reducing risks during transfer at terminals

Offshore safety

KLAW, the designer and manufacturer of breakaway couplings, emergency release systems, dry disconnect couplers and camlocks, has issued a white paper providing clear guidance on best practice for the transfer of hazardous and non-hazardous products from ships, loading arms and bulk storage facilities. The white paper is specifically created to help operators limit their exposure to risk and effectively manage the situation in the event of something going wrong.

“The transfer of hazardous materials is obviously something which carries a very high level of innate risk, which can lead to spill, injury and damage to assets. This varies greatly according to the product that is being transferred, whether elements of the transfer are potentially mobile or static and where it is



The paper provides advice for the safe transfer of hazardous materials.

taking place. This paper hopefully clarifies risks and how to protect operations against these risks,” said Dominic Hinchey, the sales director at KLAW.

“With such an elevated level of risk it is vital that transfers are undertaken with the highest quality products, that operating staff

are highly trained, that the products are properly maintained and that best practice procedures are applied consistently throughout,” he added.

To receive a copy of the White Paper email sales@klawproducts.com or call +44 1373 827100.

“Firestop” layer system for fire suits provides high protection and comfort

Fire safety clothing

Istanbul-based Kivanc Group has developed the “Firestop” layer system for fire suits that offers the highest levels of protection and comfort for firefighters.

Producing a low weight, comfortable, breathable fire suit with the highest protection is a tough challenge because protection and comfort work contrary. The thermal insulation (e.g. weight) needs to be increased in order to increase protection, which results in low breathability and reduced comfort.

The Firestop layer system offers very high heat transfer flame and heat transfer radiation values without sacrificing breathability and comfort. Heat transfer flame and heat transfer radiation values are 50 per cent higher than EN 469 standard requirements. This is possible due to the special



The Firestop layer provides the highest level of protection and comfort for firefighters.

construction of each layer.

The outershell is made of PBI (polybenzimidazole), para-aramid and antistatic fibres. Special construction of yarns makes it possible to have the highest tensile and tear strength values. The tensile strength of the outershell is minimum 2.500 N (five times more than the EN 469 requirement). Tear strength is minimum 500 N (25 times more

than the EN 469 requirement).

“A good moisture barrier these days is not enough. What firefighters need is a great moisture barrier. And that’s what we are offering with our new 3D-Max moisture barrier,” commented Kivanc Koza, managing director. Three dimensional aramid nonwoven serves as a heat barrier at the same time, which increases the

thermal protection.

Firefighters should also be protected from liquids, while keeping heat stress to a minimum. The high functional bicomponent membrane used in the 3D-Max moisture barrier makes this possible. Breathability (Ret) of the Firestop layer system exceeds EN 469 standard requirements by 50 per cent.

Spunlaced nonwovens used in moisture and heat barrier increases the durability and lifetime of the Firestop layer. Using an Aramid/Viscose FR blend as an inner lining increases the moisture transport from body.

The Firestop layer system sets the highest standards in firefighting. Suits made of Firestop layer have started to be used in many fire brigades in Europe, the Middle East and the Caspian area.

Bristol unveils new firefighting systems

Firefighting equipment

Bristol Fire Engineering, the Dubai-based fire protection services and equipment provider, unveiled its firefighting technologies and systems at Intersec.

The UAE-made Al Shallal firefighting truck was built using a commercial truck chassis to strict US-led design and specification guidelines. The Al Shallal is a heavy-duty industrial fire truck built to serve clients in the regional and global oil and gas, power and industrial sectors as well as municipal civil defence units.

Designed to combat flammable liquid and gas fires, the Al Shallal truck can spray up to 40,000 litres of water and foam per minute through its three roof-monitors. The truck also carries dry chemical powder that can be applied to a blaze using its patented hydro-chem technology.

Also presented was Bristol's Containerised Firefighting Pump Set, a precision-made unit created for environments and locations where access to proper firefighting equipment and sufficiently pressurised water is an issue.



A fire safety demonstration at Intersec.

The company also showcased the HFC227 Easy Flow and Power Flow Fire Suppression System. This utilises a flow of super-pressurised nitrogen to spread an anti-fire agent over a designated area, comes with a considerably low environmental impact due to its zero-ozone depleting potential and short atmospheric lifetime.

Mahmoud Awad, managing director of Bristol, said, "These three products represent the highest standards of firefighting technologies that have been

designed to offer efficient and reliable solutions to some of the most pressing challenges facing industries and civil defence departments across the Gulf."

Bristol Fire Engineering, part of the Concorde-Corodex Group, has provided innovative firefighting equipment and solutions for more than 40 years. It continues to adopt the highest international and national standards in line with the UAE's goal to become the safest country in the world.

New fixed-point gas detector

Gas detection

Crowcon Detection Instruments Ltd has developed the Xgard Bright, an addressable fixed-point gas detector with a local display which offers flammable and toxic gas detection and monitoring.

To lower installation cost, the three-wire addressable implementation aims to reduce cabling requirements.

The OLED display is set to allow users to work with Xgard Bright during installation, calibration and routine maintenance without the need to open the housing.

Xgard Bright provides analogue 4-20mA and RS-485 Modbus signals as standard, along with an alarm and fault relay and optional HART communications. It is suitable for both small and large installations using point-to-point or multi-drop methodologies.

Target applications include oxygen depletion in laboratories, and toxic and flammable gas monitoring across the automotive, steel, chemical, food and beverage industries.

It is available internationally.

The role of fire curtains

Fire safety

Automatic Fire Curtains are designed to operate as soon as they receive a signal from the fire alarm without any manual intervention and create a partition in a fire zone, in event of a fire, to retain it within one zone, providing the occupants a safe escape for a couple of hours.

Kent Automatic Fire Curtains are life safety systems that are designed to arrest the spread of fire in a building. The assembly comprises

a fire resistant fiberglass fabric wound around a roller which is encased in a compact head box that is typically installed above the ceiling to be virtually invisible until activated. The fire curtains create a barrier to fire, remaining virtually invisible when the curtains are stored in its retracted position within the compact head-box. The curtain descends at a controlled speed upon receipt of signal from a fire alarm.

Smoke curtains act as barriers channelling smoke in the event of fire to extraction points.

Kent Automatic Smoke Curtains assist the management of smoke in a building, channelling the movement of smoke to smoke extraction points in the building or creating reservoirs to slowdown the spreading of smoke. The curtains remain virtually invisible in their retracted position within the compact head-box. When signalled by a local detector or fire alarm system, the curtain descends to the operational level using the gravity fail-safe system.

بك المخاطرة بسلامة العاملين لديك. قد تكون الاستعانة بموفر تدريب أقل خبرة أكثر توفيراً للتكاليف على المدى القصير، في حين تكون لذلك بالطبع مساوئ على المدى البعيد.

كما أن رب العمل قد لا يضمن وصول التدريب إلى مستخدميه على النحو المطلوب ومساعدته في تحفيزهم على أن يصبحوا سفراء للسلامة على مستوى الأعمال. بالإضافة إلى ذلك، قد يتم دعم المتابعة بأقل درجة ممكنة، هذا إن وُجد في الأساس، ويكون من غير المحتمل أن يقدم الموفر التدريب المخصص عالي القيمة والمهنيًا لتلبية احتياجات الأعمال الفريدة بشكل كافٍ.

إن الاستثمار في برنامج تدريب فائق الجودة يقدمه موفرٌ متخصصٌ ذو خبرات واسعة سوف يتعدى بدون أدنى شك تحقيق فوائد ملموسة للأعمال، ويؤدي لتحسين صحة وسلامة قوة العمل. نتطلع في «إم إس إيه سيفتي» للمساهمة في جعل العالم أكثر أماناً عبر تزويد الأفراد بالتدريب عالي الجودة. وبذلك نجعل أرباب الأعمال يطمئنون إلى أن مستخدميهم يجعلوننا أكثر وعياً وأفضل استعداداً للعمل بأمان على الارتفاعات. إذا اتخذت قرارك بالاستثمار في الحصول على أفضل تدريب متاح، فسوف تشعر أيضاً بهذا الاطمئنان.

تعرض شركة «إم إس إيه سيفتي» مجموعة كبيرة من الدورات التدريبية للحماية من السقوط، من بينها معدات الوقاية الشخصية: فحص الشخص المؤهل، الإنقاذ الأساسي، الإنقاذ المتقدم، والتوعية للحماية من السقوط. للحصول على المزيد من المعلومات أرسل بريدنا إلكترونيًا إلى training.eu@msasafety.com.

بالمرافق الداخلية المحمية ضد الأحوال الجوية السيئة، والمرافق الخارجية ذات التطبيقات المتعددة.

المزايا المضافة لموفري التدريب عالي الجودة

في أغلب الأحوال، ترافق التدريب عالي الجودة بعض المزايا الإضافية، ومنها توفير المساعدة في تطوير وتنفيذ خطط الإنقاذ. وتوضح هذه الخطط الجوهرية كيفية إنقاذ الأفراد حال سقوطهم من أماكن مرتفعة. ويعتبر وضع خطط إنقاذ للمستخدمين العاملين في الأماكن المرتفعة مطلباً قانونياً تلتزم به الشركات، وتوصي التشريعات بأن تكون هذه الشركات قادرة على التعامل مع ذلك وألا تكثفي بالاعتماد على مساعدة خدمات الإطفاء والإنقاذ. ويعتبر دعم المتابعة سمة أساسية لموفر التدريب عالي الجودة. إذ يتعين عليه، بعد توفير التدريب الأولي، أن يعرض خيار زيارات العودة والدعم المستمر، ويشمل ذلك مهام فحص الموقع للتأكد من جني ثمار التدريب على أرض الواقع.

هذا، وتجدر الإشارة إلى أن التدريب عالي الجودة يساعد أيضاً في إعداد سفراء للسلامة ينشرون معلوماتهم ومعارفهم في هذا الصدد بين مستخدمي شركاتهم. ويمكن للمستخدمين، الذين ينتهون من تلقي التدريب الشامل، العودة إلى أماكن عملهم وهم يتمتعون بالصلاحيات والقدرة على نقل ما تعلموه.

الاستثمار السليم في التدريب

عند اختيار شريك التدريب المناسب لأعمالك، يجب عليك مراعاة جميع النقاط المذكورة سلفاً، لأنه لا يجدر

ومعرفة أحوال الأمان التي ينبغي اختيارها، إلى جانب كيفية استخدامها، وضمان استخدام معدات الحماية من السقوط المناسبة بطريقة صحيحة بوجه عام.

ويأتي تحسين الثقة بين أحد أهم نتائج التدريب عالي الجودة، من ناحية معرفة قيود المعدات وكيفية استخدامها على النحو الصحيح، وأيضاً اتخاذ القرارات الصحيحة أثناء العمل على الارتفاعات. فعندما يحظى العاملون على الارتفاعات بهذا القدر من الثقة، يشعرون بامتلاكهم القدرة على تقييم محيطهم بشكل شامل ودقيق للتأكد من خلوه من المخاطر الأمنية، هذا إلى جانب طرح الأسئلة والإعراب عن مخاوفهم تجاه المخاطر الأمنية المحتملة لمدير الموقع أو شؤون السلامة.

من بين الأمور التي يتم إغفالها دوماً، قيمة المحافظة على روح المرحة والتشويق أثناء التدريب. فمن واقع تجربتي يتعلم الفرد المزيد ويحتفظ بقدر أكبر من المعلومات إذا استمتع بالتدريب، لأن التجربة الممتعة تساعد بشكل عام في إحداث التغيير الإيجابي على السلوك.

أما بالنسبة لموقع التدريب فهو بالغ الأهمية. والوضع الأمثل هو تدريب المستخدمين في مواقعهم قدر الإمكان، حيث يجعل ذلك التدريب محاكياً للواقع، ومن ثم يكون أكثر ملاءمةً بالنسبة لهم. ومن المتوقع أن يقدم أفضل الموفرين التدريب المخصص والمناسب لطبيعة بيئة العمل الفريدة ومواقف العمل. ويمكن تحقيق ذلك إذا كان الموفر يمتلك ثروة من الخبرات العريضة في طيف واسع من القطاعات. وإذا لم يتسنى توفير التدريب في الموقع، يكون الخيار الأفضل التالي هو مركز تدريب متطور مزود

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التدريب العملي قد يتضمن ارتداء طواقم السلامة

مزايا التدريب عالي الجودة للحماية من السقوط

يعد الاستثمار في التدريب على الحماية من السقوط ضرورة حتمية لأرباب العمل المعنيين بالسلامة والمسؤولين عن سلامة العاملين على الارتفاعات، حسبما ذكر فيل رانشبروك، مدير التدريب الأوروبي في مجال الحماية من السقوط في شركة «إم إس إيه سيفتني». وبحسب جمعية تنمية المواهب، تحظى الشركات، التي توفر التدريب الشامل لمستخدميها، بدخل أعلى بنسبة ٢١٨ في المائة، لكل مستخدم، عن الشركات التي لا تفعل ذلك.

وفق منهج شامل يركز على التدريب النظري والتطبيقي. قد يشمل التدريب النظري - مثلاً - تقديم نظرة عامة على القوانين وأفضل الممارسات، بما في ذلك عمليات تقييم المخاطر الشاملة، والجوانب الفنية للعمل على الارتفاعات، فضلاً عن الاعتبارات الإضافية الخاصة بحالات الطوارئ. يتعلق الأمر فيما بعد بتطبيق هذه المعرفة على أرض الواقع. وهي يمكن أن تشمل ارتداء أحزمة الأمان،

وهو المطلوب لإضافة قيمة حقيقية على الأعمال.

كيف يبدو التدريب فائق الجودة؟

إنه باختصار توفيرُ التوعية الشاملة للمستخدمين حول كيفية العمل بأمان على الارتفاعات. وهو يتضمن ما يتجاوز مجرد تعريفهم بكيفية ارتداء حزام الأمان، على سبيل المثال. إذ يجب أن يتوفر التدريب فائق الجودة

ومزايا التدريب عالي الجودة واضحة للغاية، ومع ذلك فكثيراً ما يتم تجاهلها. إذ أن التدريب لابد أن يحتل جزءاً مهماً من أية أعمال، لا سيما عندما يعمل المستخدمون في أماكن مرتفعة ويتعرضون لمخاطر جسيمة محتملة. لكن، ولسوء الحظ، لا يزال التدريب على الحماية من السقوط يفتقد إلى المراجعة والتدقيق إلى حد كبير. فليس جميع الموظفين يقدمون التدريب فائق الجودة،

نهاي هذا العدد ...



تحليلات:

مزايا التدريب عالي الجودة للحماية من السقوط

ما ضمن محتويات القسم الإنجليزي:

التطورات: تطورات السوق.

تحليلات: الأمن الداخلي، حماية الأقدام، معالجة النفايات، معدات إطفاء الحرائق.

فعاليات: منتدى البحرين للصحة والسلامة والبيئة، معرض إنترسك السعودية، معرض الصحة والسلامة.

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