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Health, Safety & Security Review

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Middle East

BUILDING STANDARDS

Qatar steps up its commitment to HSE ahead of the 2022 FIFA World Cup

INSIDE...

Specially designed tablets for hazardous environments

The need for certified fireproof cables in buildings

How UAE businesses can protect assets against cybercrime

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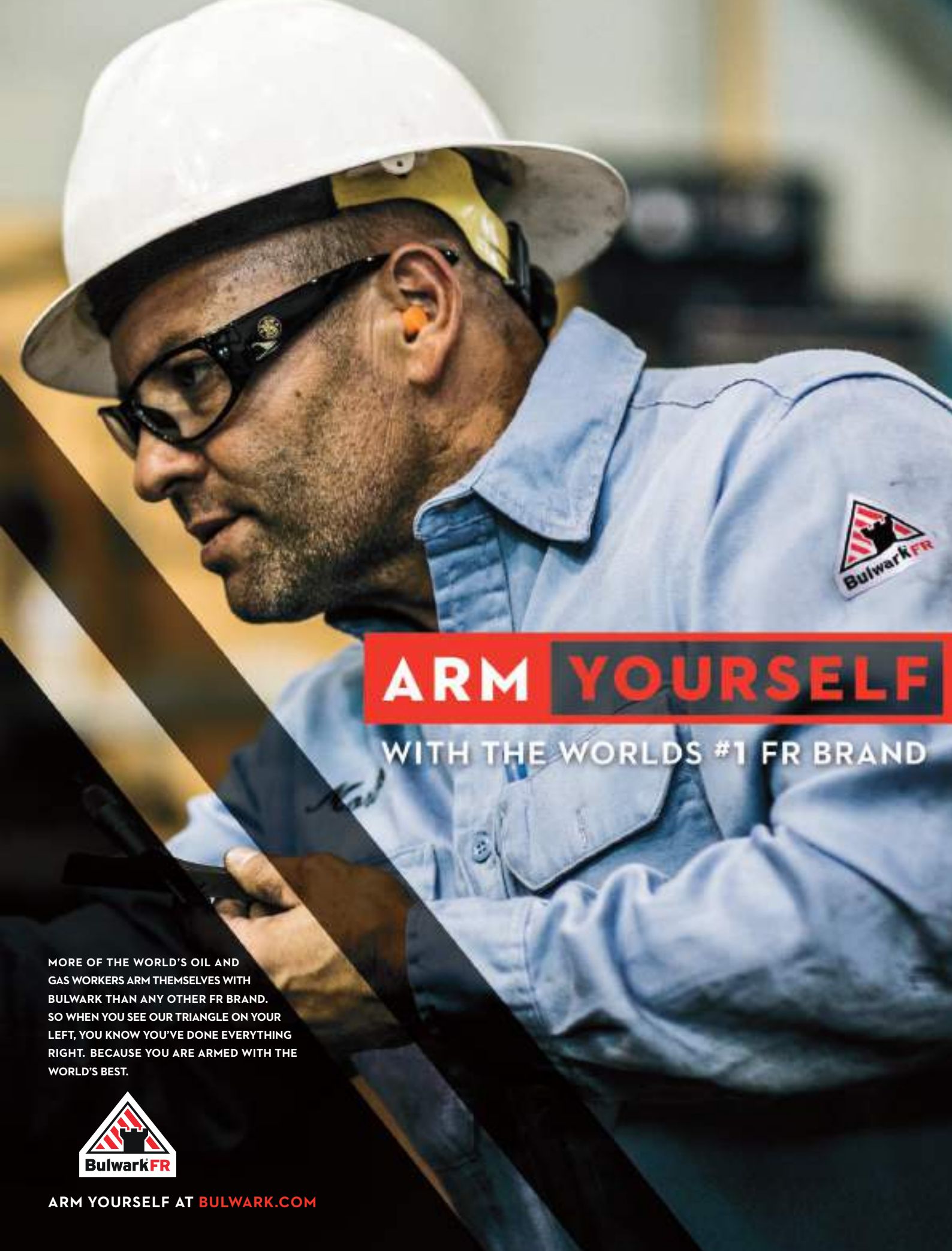
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editor's letter

Qatar, today, is one of the fastest growing economies and with high standards of living come great expectations. *Qatar steps up* (p12) will give an overview on the government's efforts for better worker wellbeing. Besides this, Project Qatar aims to support the growing construction trends in the country and we have a full preview of this year's edition of the show (p32). Vaughan O'Grady discusses tablets designed for dangerous areas, and the standards they must meet (p14). An exclusive interview with Ducab will reveal the importance of certified fireproof cables (p24). Our annual PPE Buyers' guide also makes its debut in this issue, providing information on where to seek the right gear (p36).

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ExxonMobil and RasGas test advanced gas sensor

GAS DETECTION

ExxonMobil Research Qatar and project partner RasGas are field testing an advanced second-generation dual sensor version of ExxonMobil's IntelliRed remote gas detection system.

The IntelliRed system, patent pending, provides a highly sensitive and accurate early warning of hydrocarbon leaks and is designed to improve process safety and environmental performance at oil refineries, chemical plants, LNG facilities and other gas processing facilities worldwide.

The remote gas detection system, which won the 2013 Qatar Petroleum HSE Excellence Innovation Award, has been deployed near LNG Train 7, in which ExxonMobil has a 30 per cent participating interest. Field testing is expected to run through 2016.

Hazem Abdel-Moati, safety research lead at ExxonMobil Research Qatar, said, "The dual imager IntelliRed remote gas detection system is a step forward in mitigating operational risks while improving reliability and ease of use.

"The pilot project is designed to test the system's durability and harsh climate performance by challenging it with various



According to ExxonMobil, the dual imager IntelliRed remote gas detection system is a step forward in mitigating operational risks while improving reliability and ease of use. (Photo: Akiyoko/Fotolia)

environmental conditions such as heat, humidity, dust, sand and fog."

The system employs two infrared cameras with a common optical path. One imager operates at a wavelength slightly offset from the other, allowing one imager to detect both hydrocarbon and background signatures while the second imager detects only the background signature. Image subtraction techniques eliminate background interference, which increases hydrocarbon plume detection accuracy, simplifies the autonomous computer vision algorithm and

improves continuous scanning of a given landscape for aerial surveillance applications.

Scientists from ExxonMobil Research Qatar and Providence Photonics developed the IntelliRed system over a four-year period, culminating in field tests of the system at production facilities in Qatar and the USA. In 2015, the ExxonMobil Upstream Research Company awarded Providence Photonics a global commercial license for the system.

"RasGas embraces its responsibility for the safety of people and the protection of the environment as a core commitment. Therefore, the partnership between RasGas and ExxonMobil Research Qatar is a clear demonstration of our consistent efforts to implement innovative technologies that would significantly improve process safety, integrity of assets and enhance environmental performance of our facilities," added Khalid Al Hemaidi, RasGas chief safety, health, environment and quality officer.

ExxonMobil Research Qatar was established in 2009 to conduct research in areas of common interest to Qatar and ExxonMobil, including environmental management, water reuse, LNG safety and coastal geology.

Abu Dhabi Police employs innovative technologies for a smarter city

SMART TECHNOLOGIES

Traffic accident casualties decreased by 15 per cent, and serious injuries by 19 per cent, while accidents decreased by 13 per cent in the three years between 2013 and 2015 in Abu Dhabi.

These numbers were revealed by Brigadier Eng. Hussein Ahmed Al Harithi, director general of Central Operations at Abu Dhabi Police, who confirmed the positive impact of using smart technologies in safety indicators.

Brig. Al Harithi pointed to the positive results due to the move towards modern technologies to promote traffic safety and the continuation of developing supporting systems and programmes to implement best

international practices. He also noted the use of artificial intelligence, interconnectivity and integration between various systems to provide sustainable traffic safety and avoid the causes of accidents, which result in casualties and serious injuries.

He pointed to the role of the Smart Traffic Systems Center in the integration of those systems, through the full assessment, analysis, and recalibration of the traffic system. The centre monitors traffic flow at all times through the control rooms that are equipped with the latest technologies, thus solving issues related to traffic congestion.

"The Abu Dhabi Police is launching the

'Smart Police Officer' project, a system based on individuals using advanced technologies which enable communication. This helps to develop individual performance, and measures their productivity through smart indicators. It also motivates them to raise the levels of traffic safety, monitor their workout levels for fitness and provide smart communication," Brig. Al Harithi noted.

He explained that the project provides a package of creative services through the smart patrols and the smart bike; including issuing e-tickets and helping individuals to more accurately and efficiently perform the tasks assigned to them.

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Image shows MaxiFlex® Ultimate™ 42-874
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'Better infrastructure can protect O&G'

CYBERSECURITY

Increased investment and awareness in cybersecurity measures are important for Gulf Cooperation Council (GCC) decision makers if they are to successfully defend against potential attacks on critical energy infrastructure, security experts advise.

Kevin Rosner, senior fellow with the Institute for Analysis of Global Security, said that GCC countries endowed with energy-related natural resources, need to assess whether they are adequately protecting assets which they consider central to state interests.

"Decision makers should be reminded that energy infrastructure is part of a supply chain which, to use the old adage, is only as strong as its weakest link," said Rosner, a speaker at the Infrastructure Security Conference (Infracsec) in Bahrain.

"Regardless of whatever steps have been taken to secure critical infrastructure, the threats and challenges, and, therefore, tactics to undo protection measures, are



The dependence on energy supply throughout the Middle East makes it imperative to ensure the safe and secure distribution of these resources to keep economies running. (Photo: Juice Images/Fotolia)

dynamic. As the former director of the FBI said with regards to cybersecurity back in 2012, 'I am convinced that there are only two types of companies: those that have been hacked and those that will be.' The same can be said for countries with vital, critical and largely visible energy and resource related infrastructure."

He added that regional governments, particularly those near conflict zones should analyse the importance of their critical energy infrastructure to their own national security on a node-by-node basis.

Kevin Macnish, another speaker at Infracsec and

consultant at UK's University of Leeds, said, "Cybersecurity is becoming a greater concern, especially in the wake of the Stuxnet attack in Iran. The ability to attack and bring down critical assets from a distance without recourse to missiles or aeroplanes is easier now than ever before.

"Furthermore, there are hackers who will do this for a fee and doesn't need the resources of the state to bring about a successful attack. One can invest all the money in the world on physical security and still experience a significant attack if computer systems are not subject to similar levels of security."

British Safety Council awards 436 firms

HEALTH & SAFETY

The British Safety Council has announced the winners of its 2016 International Safety Awards, which recognise organisations from around the world that have shown dedication to keeping their workers and workplaces healthy and safe, during the 2015 calendar year. The winners will be presented with their certificate in London on 6 May.

This year, 436 organisations won the award, including businesses from the UK, Africa, Asia, Europe and the Middle East. Thirty organisations were awarded a distinction, 241 were awarded a merit and 165 organisations achieved a pass.

Mike Robinson, chief executive of British Safety Council, said, "The International Safety Awards shine a light on those businesses who are taking effective steps to protect the health, safety and welfare of their workers. Sensible and proportionate management of health and safety risks at work brings real and lasting benefits for workers, their families, businesses and society as whole."

FGB first bank in MENA to get BSI health & safety certification

OCCUPATIONAL HEALTH & SAFETY

UAE's FGB has received the BS OHSAS 18001 Health & Safety Certification by BSI Middle East & Africa. This makes FGB the first bank in the MENA region to have this title, which recognises its ongoing efforts to ensure occupational health and safety in its business environment. The certification was awarded to the bank by UK ambassador to the UAE, Philip Parham.

In 2013, FGB began implementing its plan of ensuring the highest standards for health

and safety at the workplace in line with international best practices, which led to a senior management decision to adopt an occupational health and safety management system. Efforts made by the bank ensured a safe and secure workplace, free of occupational injuries, hazards and illness for everyone visiting or working at FGB, including employees, customers, stakeholders, and contractors. More than 50 employees participated in implementing the standards bank-wide and over 400 employees were

trained in various health and safety related topics. Multiple awareness programmes were also launched for employees as part of the initiative.

André Sayegh, CEO of FGB, said, "Taking care of our customers begins by taking care of our people. That is precisely the reason we initiated our Occupational Health and Safety Management System three years ago, as we value the safety of our employees, and are always working towards providing them with a positive work environment."

ENOC unit ELOMP gets accredited for quality, health and safety

CERTIFICATION

ENOC Lubricants and Grease Manufacturing Plant (ELOMP), part of the marketing business segment of Emirates National Oil Company (ENOC), has achieved three global certifications in quality, health and safety.

ELOMP's Jebel Ali facility has achieved the ISO 9001:2008 for Quality Management System, the ISO 14001:2004 for Environmental Management system and OHSAS 18001:2007 for Occupational Health & Safety Management System, all internationally recognised standardised certifications, which translate into the highest level of products and services for its customers.

Saif Humaid Al Falasi, Group CEO, ENOC, said, "With an annual blending capacity of 300,000 metric tonnes per annum at both the Jebel Ali and Fujairah plants, ELOMP serves



The accreditations were presented to ENOC by DNV GL. (Photo: ENOC)

customers across the automotive, marine transport and industrial sectors; and because of our extensive, cosmopolitan consumer base, it is essential that we ensure that our products adhere to the highest standards.

"Achieving these certifications proves that ENOC's products and operations observe global

benchmarks in quality, health and safety."

The accreditations were presented to ENOC by DNV GL. These certifications highlight ELOMP Jebel Ali's facility as a key facet for ENOC's leadership in the lubricants industry, after the commissioning of the main plant in Fujairah.

"Over the last six months, ELOMP has undergone a rigorous audit in every facet of its operations, to ensure that all stakeholders – be it management, employees, customers and the environment – are aligned with the facility's strategy," said Zaid Alqufaidi, managing director, ENOC Marketing, adding, "These certifications demonstrate our commitment to excellence; build on our achievements in ELOMP Fujairah, and help us achieve a high degree of product differentiation."

'Drink Sunlyte to prevent heat stress'

HEAT STRESS

As an official partner of the UAE's Ministry of Labor's mid-day break programme to spread heat stress awareness, National Trading & Pharmaceutical Establishment (NTPE) has recommended the consumption of Sunlyte Oral Rehydration, which offers optimum concentration of electrolytes with low sugar content (1.35 per cent). The rehydration formula is available in the UAE market in three flavours – orange, lemon and pineapple.

NTPE has also worked with heat stress awareness campaign initiated by Dubai Municipality, along with TECOM in Dubai and the Heat Safety Campaign launched by Abu Dhabi Municipality. Further, NTPE also conducts heat stress awareness programmes for construction workers across the UAE.

NTPE has also developed information tools that can be availed free of cost.

- 30-minute English training programme on 'Heat stress Related Occupational Hazards and Prevention' for supervisors, engineers, administrative staff and safety professionals.
- 10-minute animation film for workers in Hindi/Urdu with Arabic sub-titles.
- Posters in eight languages — Arabic, English, Hindi, Urdu, Telugu, Malayalam, Bengali, Tamil.
- Leaflet in five languages — Arabic, English, Hindi, Urdu, Bengali.
- Urine colour indicator charts in three languages — English, Hindi, Urdu.

Oman's institute gains IOSH recognition

TRAINING

The Institution of Occupational Safety and Health (IOSH) has accredited the BSc (Hons) in Health, Safety and Environmental Management at the International College of Engineering and Management (ICEM) in Muscat, Oman.

It is now the Middle East's first college to offer an IOSH-accredited programme. This is a recognition that the qualification provided by the college meets the standards set by IOSH.

The four-year course seeks to ensure that students gain in-depth knowledge of safety and health management systems in a variety of industries. Subjects covered by the course include fire and safety inspection and safety in oil and gas fields, as well as national and international legislation relating to occupational safety and health.

Students are trained to a level appropriate for those who will eventually hold senior positions within an organisation.

Neelesh Sogani, Chair, IOSH's Oman branch, said that the accreditation was an important step forward for safety and health in the Gulf. "As per the recent projection, Oman needs approximately 35,000 HSE professionals. The college is helping to produce the future generations of safety and health professionals, whose responsibility it will be to develop safe and healthy systems of work to protect millions of employees both in Oman and beyond.

→ events calendar 2016

May 2016

8-11	TOS+H EXPO	ISTANBUL	www.toshexpo.com
9-12	Project Qatar	DOHA	www.projectqatar.com
9-12	SOFEX Jordan	AMMAN	www.sofexjordan.com
11-12	International Oil & Gas Security Event 2016	LONDON	www.oilgassecurity.com
15-17	GCC Contractor Health & Safety Management Forum	DUBAI	www.effectivecontractormangement.com
16-18	SSS Arabia	DAMMAM	www.sss-arabia.com
17-18	10th HSE Excellence Europe	FRANKFURT	www.hse-eu.com

June 2016

2-4	World Rescue Services & Public Safety	WARSAW	www.wrsps.com
21-23	Safety & Health Expo	LONDON	www.safety-health-expo.co.uk

September 2016

5-7	OFSEC	MUSCAT	www.muscat-expo.com/ofsec
27-30	Security Essen	ESSEN	www.security-essen.de

October 2016

30-31	Gulf Safety Forum	DOHA	www.europetro.com/en/gsf2016
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November 2016

3-4	International Fire & Explosion Hazard Management	MALTA	www.2016-joiff-fehm-conference.com
7-9	ExpoProtection	PARIS	www.expoprotection.com

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

TOS+H Expo in Turkey set to showcase workplace safety solutions

EXHIBITION NEWS

Turkish Occupational Safety + Health (TOS+H) Exhibition in Istanbul enters its second round, being held concurrently with the VIII International Health and Occupational Safety Conference and organised by Turkey's Ministry of Labour and Social Security.

From 8-11 May, 2016 TOS+H Expo will witness trade visitors capitalise on both events to find out and network about the latest trends concerning the focal themes like personal protection, health and security at the workplace.

Due to the high number of employed people and the above-average economic growth, Turkey has become an attractive growth market for protective gear suppliers over the past few years. With about 27mn employees, it means a high application potential for personal protective equipment.

In 2013, Turkey was the partner country of A+A, the leading international market platform for occupational safety and occupational medicine in Düsseldorf. Based on this partnership between Turkey and A+A, not only did the Turkish-German Occupational Health & Safety Dialogue

develop but there's also an ongoing cooperation with the Turkish Ministry of Labour and Social Security. The minister of labour and social Security, Faruk Celik, sees a clear improvement of safety levels at the workplace in the development of a prevention culture in companies.

Kasim Özer, director general for Occupational Health and Safety in the ministry, also stressed on establishing a prevention culture is an important challenge to be met when pursuing the aim of avoiding occupational accidents and communicable diseases in Turkey.

Gallagher Workforce Safety and Security solutions

Perimeter Security

Gallagher's range of perimeter security systems are founded on two core principles: deterrence and detection. A regulated electric pulse deters intruders while sensor technology detects their attempts to attack the fence.

The custom-built perimeter security solutions include slim-line standalone, retrofit, wall-top electric fence systems for small commercial applications and robust systems suited to high risk security installations.



The Gallagher networked perimeter system enables full configuration, control and monitoring of the electric fence system through Command Center software.

Access Control and Workforce Safety

The Gallagher system goes beyond traditional access control, enforcing business policy, allowing you to manage multiple clearances, licenses and competences for card holders and ensuring your business duty of care and health & safety obligations are met.

The Gallagher system facilitates a number of key security and business functions including:

Visitor Management: Impress your visitors and give them a professional welcome.

Video Integrations: Integrate and monitor video systems through Command Centre.

Cardholder Display: Know 'why' cardholders are denied access on the spot.

Mobile App: Interacting with the Gallagher Command Centre solution while outside the office.



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Qatar steps up

With construction activities thriving amid the approaching FIFA World Cup in 2022, all eyes are on the host nation as it pushes for more health and safety standards onsite.



Qatar's investment on infrastructure is anticipated to reach about US\$150bn over the next few years leading up to the 2022 FIFA World Cup.

A report published by First Qatar Real Estate Development Company

ABOVE: According to reports, lower oil prices has influenced Qatar's decision to focus on delivering its under-construction projects ahead of taking on any new plans. (Photo: Sergioar/Pixabay)

Mercer's *Quality of Living* rankings 2016 places Doha among the top 100 cities for personal safety of expatriates in Middle East and Africa.

The host city of FIFA World Cup 2022 ranks 70th on the ranking. Only a handful of cities in this region found themselves in the top 100 for personal safety — with Abu Dhabi ranking highest (23), followed by Muscat (29) and Dubai (40).

Safety is a vital factor for multinationals to consider when sending expatriate workers abroad, both because it raises concerns about the expat's personal safety and because it has a significant impact on the cost of global compensation programmes, the report revealed.

New studies and reports signal continued evidence of the country's construction growth despite the drop in oil prices, driven by Qatar National Vision

(QNV) 2030 – the country's economic diversification policy as well as the rapid approaching deadline for the 2022 FIFA World Cup now officially revitalised after the FIFA presidential elections.

According to Project Qatar organisers, the country has set the benchmark for the construction industry in terms of quality and number of contracts awarded in infrastructure. Qatar's investment on infrastructure is anticipated to reach about US\$150bn over the next few years leading up to the World Cup, and in line with Qatar's development plan, according to a report published by First Qatar Real Estate Development Company.

However, the country has suffered setbacks with Amnesty International's claims of worker abuse in construction sites. Workers in Qatar renovating a 2022 World Cup stadium have

suffered human rights abuses two years after the tournament's organisers drafted worker welfare standards in the wake of criticism, Amnesty International said. But with reports of Qatar making progress toward ending forced labour and improving conditions for migrant workers and the will to enforce new legislation from December 2016, as per the International Labour Organization (ILO), many are positive the country will make a comeback.

"Qatar is committed to making continuous progress on the welfare of country's workers," the Supreme Committee for Delivery and Legacy (SC) secretary general Hassan al-Thawadi said addressing a session at the 2016 UN Asia Regional Forum on Business and Human Rights on 20 April, adding, "When we bid for the World Cup we did it with the spirit that a mega sporting event is not only a catalyst for a

country's own development plans but there is a responsibility to leave a lasting legacy."

"This year we also launched a customised IT auditing platform because we understood the issues we faced in the complex supply chain. We look to this World Cup as a catalyst for sustainable, long-term change. We will continue beyond 2022 in our commitment," he added.

FIFA also spoke on the panel, highlighting the continued co-operation taking place with the SC on workers' welfare on construction sites. "We have a constant exchange of information with the SC on this topic, both in terms of health and safety and workers' welfare. We believe the measures taken by the SC are very positive," said FIFA's head of sustainability, Federico Addiechi.

In a report, the ILO mission has also acknowledged the recent concrete measures taken by the government and other interlocutors it met in Qatar to improve migrants' working conditions.

The UK-based Royal Society for the Prevention of Accidents (RoSPA) has, meanwhile, recognised the continuing health and safety work undertaken by the SC's Technical Delivery Office (TDO) across all World Cup sites, by awarding the organisation the RoSPA Gold Health and Safety award in April 2016. The award recognises commitment to continuous improvement in accident and ill-health prevention in major projects.

"We are proud to be recognised for our commitment to site safety as we ensure that all workers continue to work in a healthy and safe environment," said Yasir Al Jamal, vice-chairman of SC TDO.

The SC TDO is tasked with

delivering the stadiums, training sites and supporting facilities. There are currently 6,500 people working on SC projects including 5126 workers on TDO projects, with zero work-related fatalities on any SC projects to date.

Fire safety

In the beginning of April 2016, with two fire incidents in less than 24 hours, Qatar was under fire for safety regulations.

First, fire broke out at a restaurant and the second one occurred at the upcoming Mall of Qatar. However, both the incidents were handled with expertise by Qatari authorities. No injuries were reported. To tackle and be prepared for such a situation, Qatar Rail immediately launched a training centre in Doha to train about 15,000 Qatar Rail workers as part of its efforts to ensure the highest standards of health and safety on its sites. However, it will not be limited to the employees.

Touted to be the first of its kind in the region, the state-of-the-art centre is Premium Level accredited by UK's Chartered Institute of Environmental Health (CIEH).

Located in the Green Line underground offices, employees who undergo training are among the key personnel in construction of the Doha Metro project.

Jassim Al Ansari, director, Green Line Project, said, "The centre reflects the importance Qatar Rail places on operating to the highest international standards of occupational health and safety. The information and support we transmit through the initiative provides tools to encourage a culture of occupational health and safety and helps safeguard our

employees, partners and the wider public."

International collaborations

ConocoPhillips and Texas A&M University in Qatar co-hosted the 7th annual 'Qatar Process Safety Symposium' in Doha recently.

The two-day event, titled 'Building Competency in Process Safety', addressed topics that include process safety management, hazardous phenomena, consequence analysis and risk assessment.

The Qatar Process Safety Symposium (QPSS) expanded this year to include an exhibition for the industry to showcase products and services relevant to process safety in O&G sector.

Qatar's SC has blacklisted some companies involved in malpractices and banned them from subsequent World Cup projects after Amnesty International report on worker abuse.

Gary Sykes, president, ConocoPhillips Qatar, said, "Supporting symposiums like this, which provide a forum to share collective approaches within our industry, allows us to draw on our global expertise and support the QNV 2030."

ExxonMobil Qatar too presented 13 Tamayoz training courses between January and March 2016 for 280 employees from Qatar Petroleum and joint ventures RasGas and Qatargas, and Tasweeq and Nakilat.

"At ExxonMobil Qatar, we're committed to developing human capacity at every level and across various fields so that we can strengthen Qatar's capability to innovate, adapt, and thrive. We do this in support of His Highness the Emir's vision for a knowledge-based society, a vision that can only be made possible with a workforce that is meeting its full potential," said Alistair Routledge, president at ExxonMobil Qatar.

Tamayoz delivers professional and personal development opportunities through six targeted critical competency areas: leadership and personal effectiveness, project management, commercial, operations excellence, technical, and health, safety and environment (HSE).

In 2015, over 40 courses were offered to more than 600 industry professionals. All Tamayoz training programmes are an extension of ExxonMobil Qatar's ongoing commitment to the development of Qatar's national workforce.

Qatar Red Crescent Society (QRCS) is providing medical care and health education for expatriate workers in Qatar to improve their personal hygiene and health conditions.

QRCS recently organised four sessions for 400 workers of Galfar Al Misnad Engineering and Contracting company.

Held at the company's worksites in Doha, Al Shahaniya, and Al Wukair, the purpose of these sessions was to raise the health awareness among the beneficiaries, change their wrong practices on hygiene and reduce their morbidity rates, thus helping increase safety and productivity. ❖

The toughest tablets

Tablets are part of many people’s everyday technology toolkit. But if you work in an area where explosions are even a remote possibility, a consumer tablet is out of the question. Vaughan O’Grady discusses specially designed tablets for hazardous areas – and the standards they must meet.

“The two main standards ATEX and IECEx offer frameworks defining the standards for both the classification of the various potential explosive atmospheres and the types of equipment and protective systems used within them.”

ABOVE: Ecom’s Tab-Ex 01 combines all three of the key certifications (ATEX Zone1, IECEx Zone1, Class1 Division1) in the same device.

In 2008, the Alain Charles publication *Oil Review Africa** discussed ways to ensure the safe use of two-way phones in risky environments — those where gas or vapours might exist and cause explosions.

Since 2008, however, the choice of communications and IT equipment that could be useful to oil and gas and other industries has expanded, as has the format in which they are offered. You can now find smartphones, laptops, notebook computers, PDAs, and of course tablets, in ruggedised form — that is, toughened to withstand greater levels of vibration, heat, cold and water than consumer items, as well as dropping from greater heights. A small but significant number of devices, however, are also certified for use in potentially explosive areas.

The need certainly exists. David Krebs, executive vice-president, Enterprise Mobility & Connected Devices with M2M



market intelligence and advisory firm VDC Research, cites “the efficiencies implied by a shift from manual/paper-based to automated mobile processes, and the growing demand/opportunity to replace the radio and clipboard with a single integrated solution”.

Tablets in particular are attractive to a number of industries. As Kevin Boyd, vice-president, Business Development at Ecom instruments, a leader in mobile explosion protection, says, a tablet in particular has the right size of screen to show, say, diagrams, videos or SCADA applications (unlike a PDA or smartphone), but is also more

portable than a laptop — which is important if you happen to be carrying it long distances. “A lot of the guys who use these devices have to walk for miles around a plant — and downstairs, and up and down ladders.” Boyd points out.

But worker safety is a critical issue so until recently the use of devices that could in any way pose a risk in hazardous environments was hard to justify. However, says Krebs, “through greater availability of modern mobile devices designed to be intrinsically safe or non-incendive, these barriers are gradually being overcome”.

Intrinsically safe is in fact a defined concept, as Boyd knows

only too well. “For over 30 years,” he says, “Ecom has applied explosion protection methods to a wide range of rugged industrial portable devices to allow them to be used safely in harsh and hazardous environments where explosive gas or dust may be present.” This protection is designed to prevent an explosion initiated by hot surfaces, sparks, arcs, electrostatic discharges and even, says Boyd, “things like barcode readers and scanners... a lot of people don’t realise that these emit a certain amount of optical energy”.

Among these protection methods is ‘intrinsic safety’. Boyd explains: “In this method the electrical circuit parameters are reliably controlled under potential fault conditions to limit potential spark energy to below that which will ignite the explosive gas or dust.”

However, he adds, most smartphones and tablets cannot

“Ecom’s rugged industrial portable devices are designed to prevent an explosion initiated by hot surfaces, sparks, arcs, electrostatic discharges and things like barcode readers and scanners, which, a lot of people don’t realise, emit a certain amount of optical energy.”

Kevin Boyd, vice-president, Business Development at Ecom instruments

meet the requirements of intrinsic safety without a redesign of part or all of the device. “This is one reason why simply putting a consumer device in a case cannot be classed as Intrinsically Safe. If only it was that easy! Equipment protected in this way must be physically marked with ‘Exic’, ‘Exib’ or ‘Exia’. If it is not marked in this way, it is not intrinsically safe.”

There are related standards, of course. The two main standards are ATEX (Appareils destinés à être utilisés en Atmosphères Explosibles), legally binding in the EU, and the voluntary but more internationally applied IECEx - (International Electrotechnical Commission System for Certification to Standards Relating to Equipment for Use in Explosive Atmospheres). Both standards offer frameworks defining the standards for both the classification of the various potential explosive atmospheres and the types of equipment and protective systems used within them.

And such standards are driving a small but significant market selling intrinsically safe devices into industries like offshore oil and gas, onshore pipelines, aviation (notably where fuel is involved), chemicals, refineries, mining, defence and emergency services (when dealing with gas leaks, chemical spills or fuel spillage, for example).

Just to complicate matters, however, there is no single safety level for ATEX or IECEx. In hazardous environments that require specialty devices, there exists a variety of different classifications and device types. However, for tablets the main



Designed specifically for those working in hazardous environments, the T800-Ex Windows tablet is dustproof, waterproof and explosion proof.

classification to note is Zone 2 (gases, vapours) in Europe, or Class 1, Division 2 in North America.

Class 1 refers to gases, Division 2 refers to areas where hazards are not expected except in the case of a malfunction. Zone Two (gases, vapours) is described as “an area in which an explosive mixture is not likely to occur in normal operation and if it occurs it will exist only for a short time”.

These areas may not be dangerous most of the time but they still require intrinsically safe or non-incendive equipment. As for what you have to guarantee, Maurice Powney, certification manager SGS Baseefa, a leading internationally recognised certification body for explosion protected equipment, explains that zone two protection certification will often involve “enclosure protection with a few restrictions on the electrical circuits.”

He continues: “Plastic enclosures would be subject to thermal endurance to heat (typically 28 days at 80°C, 90 per cent RH), then cold (24hrs at typically -25°C), then subject to impact test (2 x 7J impact) and drop test, also at -25°C, and then IP54 tests. The electrical circuits have to have no sparking contacts and operate at voltages below

60V.” It is possible to choose a certification that does not rely on enclosure protection but the ignition capability of arcs and sparks and hot surfaces will always be assessed.

It’s a small market but, if your equipment meets the requirements, a rewarding one (these devices don’t come cheap), where you’ll find familiar names, like Panasonic, and less familiar ones, like Getac, Xplore and Ecom, offering specially designed tablets.

Panasonic has Toughpad, a ruggedised range that includes a number of hazardous area devices, such as the Panasonic Toughpad FZ-G1 ATEX tablet. “To secure the certification,” says Jonathan Tucker, European product marketing manager, Computer Product Solutions (CPS), Panasonic, “Panasonic developed a special battery design for the ATEX version of the tablet and incorporated the device in a purpose-built leather case. With this device,” he adds, “the oil and gas industry and other sectors sensitive to potential gas explosions have access to a rugged Windows tablet that is ATEX-certified for use by mobile workers for the first time.”

Even though Zone 2 is the least hazardous of the hazardous certifications, it remains



Panasonic Toughpad FZ-G1 ATEX tablet is part of the ruggedised range that includes a number of hazardous area devices.

demanding. Peter Molyneux, president of rugged computing specialist Getac, explains: “Zone 2 is generally so many metres away from any refining or wellhead where the atmosphere is very combustible. But it’s still quite a difficult standard in that you have to make sure that the device is shielded, and that the device can’t emit a spark, be it static or anything else. And also that if you were to drop it or hit it with a metal object you’re not going to get a spark of any type. And you also need, electronically speaking, to tie down the battery — because there’s power in the battery and that’s a potential risk as well.”

Also, you don’t want to keep swapping devices, which is why Xplore Technologies, a specialist in ruggedised tablets, offers a number of ATEX-certified tablet PCs ‘out of the box’, “so,” says Sandy McCaskie, director of sales for UK & MEA, “whether you use it on an oil rig or in the consumer’s home fixing their washing machine it’s the same

device.” There’s a good reason for this flexibility. “The mobile worker is not always working in an ATEX environment. Having a drive device that’s ATEX compliant from the start removes the potential risk of the wrong device being used in the wrong area.”

But if you think Zone 2 certification is difficult, then the safety requirements of Zone 1 — or Class 1, Division 1 — referring to areas where hazards may sometimes be present, have until recently been too demanding much for most tablet manufacturers.

Powney explains: “There are a number of problematic areas — notably types of batteries (high surface temperatures on short-circuit), power demand (high power availability can cause problems with component surface temperatures), high value capacitors and the LED/LCD display (internal-external voltage enhancement).”

And yet a tablet — the first of its kind — has been developed

for Zone 1 by Ecom in collaboration with Samsung. It is called the TabEx 01. As Boyd explains, it wasn’t just a matter of meeting safety requirements. Ecom also had to take into account customer needs, which were: take a branded

rugged tablet and make it suitable for safe use in hazardous areas; ensure software developed for the rugged tablet will run unchanged on the Zone2/Div2(DZ2) and Zone1/Div1(DZ1) tablets too; and aim for a DZ1 tablet price close to the price of some non-protected rugged tablets.

Boyd continues: “The difference between Zone 1 and Zone 2 is that Zone 2 really only considers the normal operating conditions of the device — the tablet, the smartphone — as defined by the manufacturer. Zone 1 also has to consider what are classified as countable faults, such as a short circuit of electrical components or batteries or things like that — things that might happen during the life of the equipment. Zone 1 tests and assessments take those kinds of things into account. Zone 2 doesn’t.”

Not surprisingly, then, developing the Tab-Ex 01 involved what Boyd calls “a number of different techniques which had never been tried before for this — and which are now patented by Ecom.”

Beyond Zone 1, there is Zone

“The mobile worker is not always working in an ATEX environment. However, having a drive device that’s ATEX compliant from the start removes the potential risk of the wrong device being used in the wrong area.”

Sandy McCaskie, director of sales for UK & MEA at Xplore Technologies

0, defined, says Powney, as an area “where the potentially explosive gas and air mixture occurs in normal operation. There are electronic devices that are installed in zone 0 but they are typically fixed equipment and monitor process variables.”

Designing and building a tablet for Zone 0 is probably impossible. However, the Zone 2 and now Zone 1 tablet markets will probably keep specialist providers busy for some time. In fact tablet use may be levelling out among consumers, but the hazardous area version will continue to be popular in a number of major industries for a very simple reason.

As Boyd puts it: “It enables people to do things now that they weren’t able to do before.” ❖



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'Integration improves effectiveness'

Businesses in the UAE need an integrated cybersecurity approach to secure assets, says Raj Samani, vice-president, EMEA at Intel Security.

“Rather than treating each malware interaction as a stand-alone event, an adaptive threat prevention model integrates processes and data through an efficient messaging layer.”

Raj Samani, V-P, EMEA at Intel Security

ABOVE: According to Samani, the islands of security products, data sets, and operations give sophisticated attackers ample space and white noise in which to enter, hide, and persist within the targeted organisation. (Photo: Intel Security)

Attackers today use multiple techniques to penetrate an organisation's infrastructure. This problem has only been exasperated with the proliferation of the cloud and IoT and targeted multiphase attacks consist of a series of steps that make up the cyberattack chain — reconnaissance, scanning for vulnerabilities, exploitation and exfiltration of corporate data.

The dynamic behaviour of the attackers, the greater variety and availability of local and global threat intelligence sources, and the diversity of threat intelligence data formats can make the aggregation and digestion of threat intelligence into security operations center tools more challenging than ever before.

The case against solutions

Sharing threat intelligence alone will not necessarily result in sustainable corrective action and prevention. Security analysts can quickly become overwhelmed with too much information. Most security teams are engaged in an exhausting manual process of analysing millions of security events and suspicious files in an effort to piece together a mountain of data and try to reconstruct the targeted attack.



Ultimately, this impairs the thoroughness and speed of the response process. These challenges result from insufficient integration between inspection, intelligence gathering, analytics, and enforcement elements of the security architecture. Silos of data and point controls complicate operations and increase risk.

An integrated approach to the threat defence lifecycle

Integration improves effectiveness, as active sharing of data and accelerated cross-control processes make it practical and possible for every security control to leverage the strengths and experiences of the others around it. Rather than treating each malware interaction

as a stand-alone event, an adaptive threat prevention model integrates processes and data through an efficient messaging layer. This provides reinforced levels of inspection and analysis informed by expanded forms of intelligence and connects end-to-end components to generate and consume as much actionable intelligence as possible from each contact and process.

Protect, detect & correct

The shift to adaptive threat prevention helps overcome the all-too-common functional fences that shackle detection, response, and any chance of improved prevention. This transformation requires IT teams to adopt a protect-detect-correct approach.

To shorten response times and contain the largest number of threats possible, organisations in the UAE, need a holistic security approach that addresses the entire threat defence lifecycle, seamlessly integrates and offers a truly connected approach to putting actionable threat information and control at the fingertips of security management teams — all with the fastest available performance to enable the organisation to take action in real-time. ♦

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Leading the way

Ducab's PowerOverFire initiative aims to make GCC a safer region with citizens' involvement.

“At Ducab, we believe that fire safety is a collective responsibility and with this campaign we aim to address the issues of faulty, counterfeit and unapproved cables and wiring in the UAE building and construction industry.”

Andrew Shaw,
managing director, Ducab

ABOVE: Representatives of Dubai Civil Defence and Ducab at MEE 2016. (Photo: Ducab)

Ducab, the UAE-based manufacturer of high-quality cables and cabling products, announced the launch of the PowerOverFire campaign for 2016 with Ducab Truck, in partnership with Dubai Civil Defence at Middle East Electricity (MEE) 2016 from 1-3 March at Dubai World Trade Centre. The campaign aims to educate the industry, both locally and internationally, on the most up-to-date regulations and industry approved cabling.

Ashish Chaturvedy, marketing manager at Ducab, spoke with *Health, Safety & Security Review* about this initiative. “The idea is to be able to address the market from a leadership perspective. There is a corporate social responsibility (CSR) involved that we are trying to do around the campaign to leave the safety message in the viewers’ subconscious mind. We are also promoting fire performance cables FlamBICC, in particular.”

Chaturvedy reiterated that the campaign focuses at trying to also reach to audiences who may not be buying soon. However, whenever they are ready for their next purchase for fire

performance cables, emergency system, lighting system, elevator shafts, they think of Ducab.

For the campaign, Ducab took a 40-foot container and created a classroom ambience inside with a lot of technical videos on general fire testing. The message was to try and reach out to certified cable companies to beware of counterfeit products. “There are videos, touchscreen kiosks and general information on how to safeguard houses and installations,” he noted.

From the logistics point of view, Chaturvedy added that the truck can be parked anywhere where the visitors are not necessarily from the electrical background but may need more awareness about fire safety. “We have messages onboard from DEWA, EMSA, Dubai Customs and others to promote fire safe measures in the region.”

The campaign truck is slated to travel to Sharjah, Abu Dhabi, Fujairah in the next three months, thereafter covering the Middle East countries like Oman, Qatar, Bahrain, Kuwait.

Chaturvedy noted that the campaign also aims to target general public and school kids

across various locations the truck goes to. “From Satwa to Al Maktoum Hospital to schools and colleges, we want the truck to be visible in every area and our experts will be present to push the ‘fire-safe’ idea across the society. The aim for a safer city needs to arise from everybody.”

Speaking about FlamBICC, the marketing manager said the product is gaining popularity with many projects. “We can talk about Palm Jumeirah, Burj Khalifa, Abu Dhabi International Airport and Dubai Metro. You name it and we are there.”

In terms of expansions, Ducab has invested in excess of US\$408mn in various facilities by either acquiring new factories or expanding the existing ones with new machinery, new capabilities and new equipment. In the UAE, Ducab has four cable manufacturing plants. There is a specialist cable manufacturing facility in UK’s Newcastle, that was recently acquired by the UAE-based company.

When asked how he feels about safety standards in the UAE, Chaturvedy said that he believes that within the region, UAE is one of the best. ♦

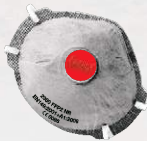


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The edge of safety

Capital Safety's Nano-Lok edge self retracting lifeline. (Photo: Capital Safety)

Capital Safety's Roman Crouzet stresses on why is it important to choose right fall arrest equipment with the unique risks involved.

The US Department of Labor's Occupational Safety and Health Administration (OSHA) sets out safety regulations, which provide a standard for fall protection detailed in Fall Protection in

Construction (OSHA 3146-05R 2015). In order to specify a fall arrest system, it is important that the risks of the application involved are considered as in some situations, the wrong choice of system could be fatal. Product

testing and certification bodies around the world have come to recognise that there are two environments that involve increased risks due to the lifeline cutting, fraying or becoming otherwise compromised — leading and sharp edge applications.

Understanding leading and sharp edges

A sharp edge is one that has the potential to cut most types of lifeline. Performance of a lifeline will vary dependent on the construction of the line and the nature of the edge. Risks are compounded by the fact that sharp edges are found in many leading edge applications. A typical example of a leading edge application would be the installation of sheet roofing materials where the installer's fall protection system is anchored at foot level behind him.

Unique risks

While the primary risk in leading and sharp edge applications is where the lifeline passes over a sharp edge, it can be frayed or severed, there are a number of other related risks:

- ❖ **Increased fall distance:** Leading edge applications often involve workers attached at foot level which increases the distance of a fall.
- ❖ **Lock-up speed:** Self-retracting lifelines (SRLs) react to a fall when the lifeline accelerates out of the housing, which is generally at a velocity of 1.37 metres per second.

- ❖ **Increased fall-arrest forces:** Falling further means the impact on the body through the fall protection system will potentially be higher when the fall is arrested.
- ❖ **Increased potential for pendulum hazards:** If a fall occurs when a worker is positioned at an angle to the anchor point, there is the danger that he will swing like a pendulum.

Getting the choice right

The Capital Safety range includes SRLs designed specifically for leading and sharp edge applications. These were introduced in response to the introduction by American National Standards Institute (ANSI) of new standards on self-retracting devices. Products include a 2.4 metre personal SRL designed for foot-level anchorage which is capable of stopping a fall, providing increased protection at low heights, and a galvanised steel leading-edge SRL which is 35 per cent stronger than standard cables.

Key to safer sites

Product testing and certification organisations around the world have recognised that leading and sharp edge applications create increased risk, which highlights the fact that in these situations, workers must use appropriate equipment and use it properly. ❖

— By Roman Crouzet, Middle East manager at Capital Safety, a 3M company





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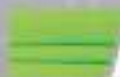
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Be safe, not sorry

As the demand for smart card payment increases so does the risk towards fraudulent activities online. Regional director MEA at Matica Technologies V. Gopalakrishnan gives us a heads-up.

In the Middle East, online shopping is especially popular despite 40 per cent being concerned about its security.

ABOVE: Between 2015 and 2017 it is estimated that 50bn cards will be produced for the global financial industry. (Photo: Michael Jung/Fotolia)

There is a trend to compare the use of debit and credit cards in relation to the newcomer: ‘mobile payment’ – or mobile money, as though cards are likely to go out of fashion. And while Middle East consumers are known for their mobile payments, this simply isn’t true. So without rejecting out of hand the future potential of mobile payments, let’s examine some clear-cut facts about cards so no-one is in any doubt: cards are here to stay.

Between 2015 and 2017 it is estimated that 50bn cards will be produced for the global financial industry – this includes 22bn EMV cards, the standard for smart payment cards, often referred to as ‘chip and pin cards’. (EMV stands for Europay®, MasterCard® and Visa®.) In 2015, the EMV global market

alone grew by around 30 per cent. More generally, the Middle East and Africa is the third largest growth region in the world with an expected production of 2.75bn financial cards in 2016 – which equates to 9.2 per cent growth. Asia Pacific tops the rate with over 10bn this year (11.3 per cent) followed by the Americas with 2.7bn (7.4 per cent).

The global contactless smart card market is also experiencing substantial growth as more point of sale technology is updated to accommodate the fastest form of card payment. Industry forecasts a global growth of 30 per cent over the next five years. Nine hundred million contactless cards were issued in 2014.

In the Middle East, where online shopping is especially popular despite 40 per cent being concerned about its security, (72

per cent of the region’s consumers made their first online purchase between 2013-2015), 53 per cent prefer in-store shopping so they can “see, touch and try” products*.

However, even in our region where many still use cash, card payments are undoubtedly still growing.

Three years ago, a Visa Middle East study** reported that between 2008 and 2012, increasing use of credit and debit cards added US\$4.2bn to the GDP of UAE, US\$4.7bn to GDP of Saudi Arabia, US\$7.8bn to GDP of South Africa, US\$1.2bn to GDP of Kuwait and US\$0.4bn to Qatar’s GDP.

The report concluded that the “positive impact in economic growth is a direct result of card usage.”

Mark Zandi, chief economist

of Moody's Analytics, which conducted the report, said, "The increase in consumption parallels the growing popularity and accessibility of electronic payments among global consumers. These findings point to the need for governments across the world to adopt policies that encourage the shift to efficient and secure electronic forms of payments."

So we can safely say that change is afoot. The demand for improved security remains omnipresent since fraudulent activity never abates. And for banks, other pressing issues include: how to win and retain customers in an increasingly competitive marketplace, and how to increase the percentage of activated debit and credit cards because a huge proportion remain unactivated, representing a significant loss in revenue. In the USA, for instance, only 58 per cent of all activated credit cards are ever used, and that's less again because only 53 per cent of all issued cards are activated.

Worldwide, there is a distinct move towards decentralising the production and distribution of cards and bringing it into the bank branch. As such, 'financial instant issuance (FII)' – placing a debit or credit card direct into the customer's hands and activating it before they leave the branch or pop-up location – is fast becoming the market's hero.

The growing need to diminish identity duplication and forgery cases has resulted in remarkable growth in the global contactless smart card market, which may rise to 30.31 per cent by 2019.

A report by ReportsnReports

With the help of international manufacturers like Matica, banks can invest in FII technologies that save on courier costs and mitigate the risk of customers not activating the card. Banks can also take these mobile desktop printers to other locations such as airports or shopping malls, opening opportunities for further revenue streams.

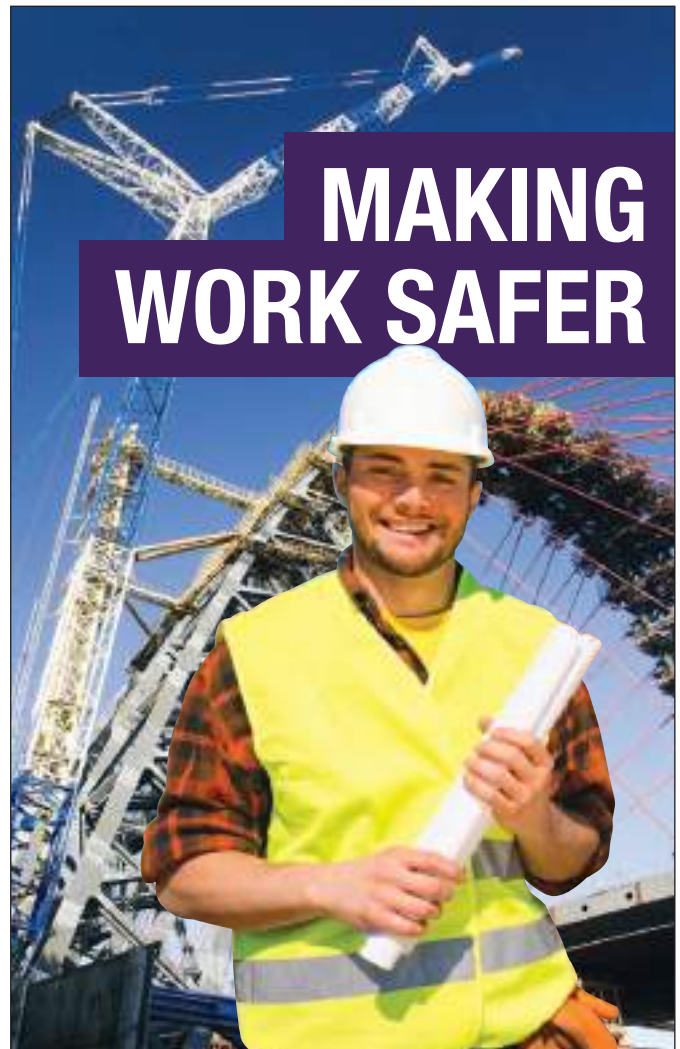
In our time-efficient 21st century, customers want a fast, convenient but friendly service without fiddly activation processes, so receiving credit and debit cards in branch and purchase ready is the perfect solution. They leave the bank with galvanised loyalty, ready to spend, while the bank vastly improves its reputation and its chance to broaden profit margins without, one might say, 'breaking the bank' – which is always a winner in our experience. ❖

**According to Go-Gulf*

*** The study was conducted for Visa by Moody's Analytics, a leading independent provider of economic forecasting*

V. Gopalakrishnan is regional director MEA, Matica Technologies and has overseen significant financial projects with respected banks and financial institutions across Middle East and Africa.

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Safety at the heart of ISNR 2016

The event complemented the efforts of governments and countries across the globe to develop and improve their homeland security, resilience, crisis management, firefighting, emergency and public safety.

“UAE is working to cement the economic and investment structures in a secure and safe environment, using highly-qualified human resources, with the latest tools of the era.”

**Lt. Gen. Sheikh Saif bin Zayed Al Nahyan,
UAE Deputy Prime Minister and Minister of Interior**

The seventh edition of International Exhibition for Security and National Resilience (ISNR) Abu Dhabi 2016, held in the UAE capital, showcased world-class technologies and featured the signing of million dollar deals.

The event was organised by the UAE Ministry of Interior (MoI) and Reed Exhibitions at Abu Dhabi National Exhibitions Centre (ADNEC) from 15-17 March 2016. Held under the patronage of HH Sheikh Hazza bin Zayed Al Nahyan, deputy chairman of Abu Dhabi Executive Council, the event literally got off to an explosive start, with a spectacular opening ceremony featuring the live simulation of a co-ordinated emergency response to a disaster involving a plane crashing into a chemicals factory.

Lt. General HH Sheikh Saif bin Zayed Al Nahyan, deputy Prime Minister and minister of interior, said, “The UAE is one of the most secure and stable countries in the world. This requires all of us, individuals and institutions, to

work tirelessly and relentlessly to keep the security and stability and preserve the national gains achieved by the UAE in various fields.”

“Holding this exhibition is an enormous opportunity for the governments in the region and private sector security and safety companies to come together to exchange experiences with the participating delegations and companies; review the latest international systems, tools, equipment, and technologies in the fields of security, safety, crime fighting and prevention.”

At ISNR, the MoI and the Abu Dhabi Police General Headquarters signed US\$106.4mn worth of contracts during the event to acquire the best technological security devices, equipment and vehicles, and to seek qualified personnel and training services to promote the skills of the MoI staff members according to the best international standards, said a statement.

The Middle East’s homeland

security market is set to double to US\$34bn by 2020, demonstrating the Gulf countries’ robust homeland security and national resilience agenda, industry experts announced, which is three times the global growth average, according to a Frost & Sullivan report. The largest share, 55 per cent or US\$15bn, will go to securing government, energy, and critical national infrastructure. Saudi Arabia is spending US\$57bn on defence and security in 2016, the highest share of its budget at 25 per cent, the report added.

Maj. Gen. Ahmed Nasser Al Raisi, deputy chairman of the Higher Organizing Committee, ISNR 2016, revealed, “The Middle East’s homeland security market will see a compound annual growth rate of 18.7 per cent, reaching US\$34bn per year by 2020, a growth rate that is three times higher than the global average. This growth is not reflective of worsening security situations, but rather a positive foundation for countries

ABOVE: The ISNR 2016 opening ceremony on 15 March in Abu Dhabi. (Photo: Reed Exhibitions)



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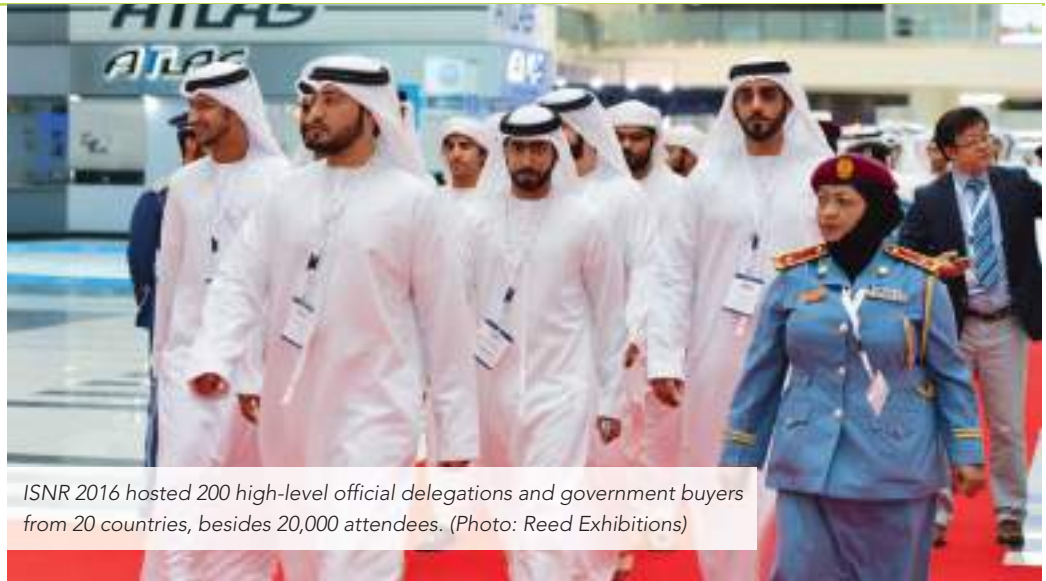


FPAL



CompEx





ISNR 2016 hosted 200 high-level official delegations and government buyers from 20 countries, besides 20,000 attendees. (Photo: Reed Exhibitions)

enhancing their security and resilience. ISNR 2016 is the third largest homeland security event in the world, and the regional mega-event will drive regional infrastructure investment to US\$700bn in total to 2020.”

Drones were leading the Middle East’s high-tech homeland security, with the most advanced solutions being demonstrated at ISNR 2016.

The 530 exhibiting companies, including global leaders, showcased solutions across public safety, disaster management, border security, connected law enforcement, and critical national infrastructure protection.

“GCC countries are global early adopters of the most innovative solutions that meet the most complex requirements – from Smart Cities to protecting critical national infrastructure. ISNR’s broad perspective on security and resilience is well suited to Thales unique position, and is a marquee event for driving new business leads,” said Marc Duflot, V-P at Thales Middle East, the French security

conglomerate.

Drones and advanced safety systems led ISNR’s innovative solutions, along with security vehicles, surveillance technology, biometrics, communications equipment, remotely operated vehicles, and firearms. ISNR also featured over 100 conference and seminar presentations on homeland security and national resilience.

In cybersecurity preparedness, the GCC countries are among the global leaders with the region’s network security spend tripling to US\$1bn by 2018, industry experts announced at Infosecurity Middle East, part of ISNR 2016.

With the region’s rapid economic development and connectivity in the Internet of Things era – especially in critical national infrastructure, oil and gas, and financial services – the

GCC’s network security spend is set to grow from US\$340mn in 2012 to US\$1bn by 2018.

“As cyber threats grow in complexity and severity, GCC organisations are among the world’s most advanced in deploying solutions that proactively protect devices, user information, and corporate data. Infosecurity Middle East is an ideal platform to promote the global Mobile Security Alliance and our enterprise mobility management and end user computing solutions,” said Ian Evans, V-P of End User Computing at VMware, and EMEA managing director at AirWatch.

VMware AirWatch joined over 100 leading international exhibiting companies at Infosecurity Middle East, including Bitdefender, Blue Coat, Cyberoam Technologies, Dionach, Elettronica, Exclusive Networks, Huawei, QinetiQ, and Winsted.

The three-day event included five exhibitions – Infosecurity Middle East, Occupational Safety and Health Middle East (OSHME), Emergency Response and Disaster Prevention, Fire Fighting Middle East and International Cyber Crime Conference – besides live events like 911 World Firefighting

Challenge and Aftershock II.

The Future of Policing Pavilion showcased 21st century policing solutions and technologies across policing, counter-terrorism, and special forces. Solutions included smart ID cards, smart watches, drones, and robots in the live demo area.

At the Innovation Podium, attendees experienced innovative products, solutions and services, with free seminars, case studies and presentations on topics such as police recording, mini-drones for reconnaissance and surveillance, automated visual evidence gathering, mass transit threat detection, and biomedical countermeasures.

The event witnessed 530 exhibiting companies from 57 countries take part in the global event. The event also hosted 200 high-level official delegations and government buyers from 20 countries, besides 20,000 attendees.

Exhibiting companies included Thales, Barco, BAE Systems Applied Intelligence, CNL Software Ltd., Dyncorp, Emirates Solutions For Integrated Security, Emirates Sensing Technologies LLC, Rise General Trading LLC, NAFFCO, Aentron, Alliance Solutions Group, German International, aidpol, besides many others. ♦



The event witnessed 530 exhibiting companies from 57 countries take part in the global event. (Photo: Reed Exhibitions)

Fulfilling 2022 goals



Project Qatar 2016 will push for better business as the nation begins witnessing a rampant rise in the construction sector ahead of the FIFA World Cup in six years' time.

“For the 2016 edition, we have already registered a record number of strategic partners and sponsors such as Gulf Organization for Industrial Consulting, Ministry of Municipality and Environment, Qatar Society of Engineers, among others.”

Rawad Sleem,
IFP event director

ABOVE: Project Qatar's 2015 edition hosted 1,130 exhibitors and 32,000 visitors.
(Photo: Project Qatar)

Qatar's investment in infrastructure is anticipated to reach around US\$150bn over the next few years leading up to the 2022 FIFA World Cup, and in line with Qatar's development plan, said IFP Qatar, organiser of the upcoming Project Qatar event referring to a report published by First Qatar Real Estate Development Company.

Held under the patronage of the Qatari government and the support of HE Sheikh Abdullah Bin Nasser Bin Khalifa Al-Thani, Prime Minister and the Minister of Interior, IFP Qatar will hold Project Qatar 2016, the 13th International Construction Technology & Building Materials Exhibition, from 9-12 May.

New studies and reports signal continued evidence of Qatar's construction growth despite the drop in oil prices, driven by the Qatar National Vision (QNV) 2030 – the country's economic diversification policy – as well as the rapidly approaching deadline for the 2022 FIFA World Cup.

Qatar is currently poised for an extended period of even more heightened activity, maintaining a steady growth. In this context, Qatar is considered to be the

Middle East's most reliable economy to attract foreign investments and businesses due to its abundance in terms of natural wealth, and its clear openness for attracting foreign investment. It also has one of the world's most comprehensive and ambitious economic development and infrastructure programmes.

According to Qatar Investment Fund, Qatar is projected to witness a super-normal pace for the next seven years, having already seen a huge boom in the construction sector, resulting in a large number of infrastructure projects. This includes US\$20bn investment in roads, US\$40bn investment in railways, US\$4bn investment in stadiums, US\$8bn investment on a deepwater seaport; and about 10,000 hotel rooms to be built in the upcoming years. The country has set an investment programme which includes more than 700 individual projects of more than US\$30bn to be implemented. This will make Qatar capable of hosting World Cup 2022 and meeting the needs of growth beyond the FIFA event.

Project Qatar aims to support the construction sector in Qatar,

giving local and international traders in-depth insights into the latest products and services in the field of construction such as building materials, heating ventilation and cooling (HVAC), mechanical electrical and plumbing (MEP), heavy equipment, stone technology, construction tools and technologies, security and safety systems, contracting, trading and many others.

The four-day exhibition will bring together hundreds of manufacturers, suppliers and industrial professionals from Austria, Belgium, Canada, China, Denmark, France, Germany, Greece, Hong Kong, India, Iran, Italy, Jordan, Oman, Morocco, Pakistan, Poland, Portugal, Romania, Serbia, Singapore, Slovakia, South Korea, Kuwait, Spain, Thailand, Turkey, The Netherlands, UK, USA and UAE.

“The country's construction sector appears poised to continue its growth towards the 2022 FIFA World Cup,” said IFP's Rawad Sleem, adding, “Project Qatar will continue to contribute year after year, aided by the strong support of the Qatari government, yielding value to the construction industry in Qatar and beyond.” ❖

Enhancing efficiency offshore

The AGM conference will focus on promoting a safe and professional operating culture in the offshore, shipping and maritime industries.

“The time is right for the oil and gas industry to reappraise culture change, proficiency and cost effective delivery of maritime operations to ensure that this vital element of offshore activity makes a positive contribution to the maximising economic recovery challenge around the globe.”

Robbie Middleton,
conference organiser

ABOVE: Aberdeen was chosen to host the AGM conference due to its role as the European operations centre for the oil and gas industry.

The challenges surrounding the delivery of safe and efficient marine operations throughout the offshore energy and maritime industries will be the focus for the Nautical Institute AGM Event 2016 in Aberdeen on 9-10 June.

Measures to enhance safe operations, minimise costs and maximise economic control and loss prevention will be examined during the two-day event, organised by the global international representative body for maritime professionals – The Nautical Institute.

The step change in competencies, efficient operations and appropriate manning required to achieve this will also be discussed.

Aberdeen was chosen to host the AGM conference due to its role as the European operations centre for the oil and gas industry and the significant change occurring within the industry due to the lower for longer oil price environment.

Speakers at the event will include Deirdre Michie, chief

executive of Oil & Gas UK, and senior marine executives from exploration and production companies, marine consultancies and training providers.

The programme includes examples of offshore ship operation incidents; addressing current levels of shipboard competency; how competency and human element factors can enhance economic and safe operation; dynamic positioning (DP) officer competence; and the relationship between current certificates of competency and the requirements for the safe operation of modern vessels.

A selection of highly regarded expert speakers will encourage delegate participation in workshop sessions, which will be attended by maritime professionals ranging from senior managers, sea staff, naval officers, lawyers, surveyors, port and harbour personnel, trainers and many others.

Conference organiser and past president of the Institute, Robbie Middleton FNI, said: “There is a

point in a recession when you need to take stock, consolidate and plan for the future. The time is, therefore, right for the oil and gas industry to reappraise culture change, proficiency and cost effective delivery of maritime operations to ensure that this vital element of offshore activity makes a positive contribution to the maximising economic recovery challenge around the globe.

“The Nautical Institute has a long-standing relationship with the industry, having developed the benchmark global Dynamic Positioning standards and accreditation programme at its request in the 1980s. By bringing international experts to the table in Aberdeen, we now aim to help navigate a course to safe and efficient operations that are also economically sustainable.”

Gold level sponsors of The Nautical Institute’s AGM conference include Marex, Glasgow Maritime Academy, Aberdeen Harbour, Chevron, Swire Pacific Offshore, and City of Glasgow College. ♦

For a safer work environment

OCCUPATIONAL HEALTH & SAFETY

Safety & Health Expo 2016, which will take place in London on 21-23 June, will host a wide variety of theatres and features providing visitors with CPD-accredited content on all the key issues facing the industry.

According to organiser UBM, Safety & Health Expo helps health and safety professionals save time and money, remaining compliant and efficient. The 300 companies showcasing new health and safety products and services will ensure access to the latest and most cost-effective technologies, to cut costs while retaining low risks.

The expo will also provide 80 hours of free seminar and workshop content that will inform participants on the latest legislation, avoiding potential costly court cases and workplace injury, while CPD-led sessions will help health and safety professionals take the next step in their career.

Simultaneously, the expo will also hold an occupational health theatre that will feature seminars focussing on how to keep employees healthy whilst in work, and how to manage any risks in the workplace that are likely to give rise to work-related ill-health; a fleet safety theatre to focus on showcasing the latest trends and techniques for optimum driver safety; the IOSH Conference that will welcome 800 international senior health and safety professionals to hear from world class experts discussing leading examples of safety and health innovation; SHE1000, which will see 1,000 women come together for a networking session to celebrate them working in industries that protect and manage buildings; among other features at the three-day event.

The distinguished speaker portfolio at Safety & Health Expo 2016 includes Col Tim Collins, Kate Adie and James Cracknell, besides health and safety experts.

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Working platforms that ensure occupational safety

CONSTRUCTION

Paschal has launched formwork and shoring systems that provide a complete solution with which formwork and concreting tasks can be carried out safely and securely. These systems can cater to large construction sites with different types of geometry including rectangular, oblique-angled or circular concrete constructions.

Multip is a multi-functional working platform that ensures safety standards and increases work efficiency during forming and concreting. It is suitable to be used with a variety of formwork systems.

The components of the working platform including ladders, coverings and railings are integrated into the platform.

This enables the complete unit to be transported and set up without the need to assemble component parts and on-site additions or modifications. When the formwork units are moved, the Multip remains attached to the formwork and can be moved together with it.

Paschal has also launched a concreting platform for the LOGO.3 wall formwork system that provides comprehensive occupational protection. The platform unit is tailored to the LOGO.3 formwork system and is a folding system unit that includes all component parts – working area, rear safety protection, crane attachments and brackets.

Also developed is a precast wall adapter that enables the LOGO.3 concreting platform to be mounted on precast wall elements. This is aimed at making the concreting of these erected precast walls safer.

Occupational safety is beginning to play a bigger role in industries. In concrete constructions especially, owing to the height at which construction takes place, the risks of falls are high.

A recent publication from the German construction employers' liability association highlighted that more than half of all accidents at work that occur on construction sites involve falls.



Grip column formwork is delivered as a complete system unit and is folded up. (Photo: Paschal)

Robotic technology to correct 'human error' from respirator filter

TECHNOLOGY

Scott Safety's robotic technology will deliver impeccable quality control and improve safety in respirator filter production. Respirator safety is critical as errors in production could mean a matter of life or death to asbestos removers.

The new system ensures that every filter is meticulously checked using an advanced vision

system that measures part type and position. The system takes photographs of the filters at multiple points during production and digitally compares them to a model filter and instantly rejects those that are defective. This form of automation and the stringent screening process facilitates the manufacture of filters that consistently meet the standards

for quality and safety.

Scott Safety has recently employed a dedicated team of specialists to oversee filter operations on the factory floor. The traditional manual assembly process of manufacture has now been converted to an optimum combination of team members and machines.

The company personnel still play a vital role in production,

with operators packing the products and carrying out one last quality check before the filters leave the factory.

"As the robots work optimally 24/7 without the need for a break, Scott Safety also delivers unrivalled turnaround in production and delivery of its filters to customers," said Scott Safety product manager EMEA Michael Haguinet.

HD identification on Axis' new video management system

SURVEILLANCE

Axis Communications has launched Axis Camera Station 5, the latest version of its video management system (VMS) for mid-size installations.

The Axis Camera Station 5 comprises four to 50 IP cameras and together with Axis network video recorders and IP products, it offers a complete video surveillance monitoring and recording solution.

The new version introduces hardware decoding, integration of third-party IP cameras and optimised rendering for high-definition identification and smooth videos with resolutions up to three 4K video streams. The VMS also comes with mobile viewing app that allows for remote monitoring.

Users can view live video and recorded footage from the

The system has a dedicated interface for operation that has been designed to provide ease of use to all users. (Photo: Axis Communications)



camera using the app.

The system has a dedicated interface for operation that has been designed to provide ease-of-use. The interface supports personal use as well as use in large installations like such as retail stores, schools and

factories. The VMS supports 360° overview recording, H.264 compression, multi-view streaming, corridor format, zipstream technology and advanced camera-based video motion detection.

Axis Communications director

solution management Peter Friberg said, "AXIS Camera Station 5 together with our market leading portfolio of IP security products offers a proven and easy to use security solution for installations in schools, manufacturing sites and more."

New short-range indoor laser sensor launched

MOTION DETECTION

OPTEX has launched RLS-2020I, a new short-range indoor model of laser sensors. The sensor provides a virtual wall to identify the presence of people or objects within an area up to 20x20 metres. It protects against security breaches such as unauthorised access and improves the reliability of video-based motion detection and surveillance.

The new model is part of the OPTEX REDSCAN laser sensor range and features the same benefits of the larger scanners but is lighter, more compact and has a range of additional control and power features similar to those enjoyed by IP dome cameras.

The RLS-2020I can analyse the size, distance and speed of the encountered object by measuring the time it takes for the emitted laser beam to hit an object and reflect the signal back to the sensor. The system can be set up to trigger when an object of a certain size is detected or when a distance threshold has been reached.

The sensor is built on Class 1 laser technology that used for industrial, safety and security applications. It is not sensitive to lighting and can detect even in complete darkness. It can be used to trigger to event-driven video surveillance systems as it can drive cameras to pre-determined positions and point to the

intrusion.

The new sensor is also energy efficient being powered by power over ethernet (PoE) and consuming only 6W of power. OPTEX senior manager, product and business planning department Massaya Kida said, "We have used our experience of similar technologies and the feedback from customers to design a new sensor that has many of the design features and mounting functionalities of an IP dome camera, so that it is easy to install and can integrate within any video security solution."



The sensor provides a virtual wall to identify the presence of objects. (Photo: OPTEX)

Personal Protective Equipment Buyers' Guide

2016

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

Acid Resistant Clothing

KERMEL

Breathing Equipment/Protection/Respirators

Bullard Asia Pacific Pte. Ltd.
DELTA PLUS MIDDLE EAST
Globus EMEA FZE
Honeywell Industrial Safety
KARAM SAFETY DMCC
Midas Safety Products Trading LLC
Raja for Restaurants & Construction
Materials Co.
Schefferville Trading LLC

Chemical Protection Suits

Globus EMEA FZE
Schefferville Trading LLC

Ear Protection

KARAM SAFETY DMCC
Schefferville Trading LLC

Face Protectors

Bullard Asia Pacific Pte. Ltd.
Honeywell Industrial Safety
Schefferville Trading LLC

Foot Protection/Safety Footwear

Ballyclare Ltd.
DELTA PLUS MIDDLE EAST
G.B. Industries Sdn Bhd
Honeywell Industrial Safety
KARAM SAFETY DMCC
Midas Safety Products Trading LLC
Raja for Restaurants & Construction
Materials Co.
Saudi Leather Industries Factory Co. Ltd.
Schefferville Trading LLC
Williamson-Dickie Middle East FZE (Dickies)

Hand & Arm Protection

G.B. Industries Sdn Bhd
Globus EMEA FZE
Safety INXS

Head Protection/Helmets

Bullard Asia Pacific Pte. Ltd.
KARAM SAFETY DMCC
Midas Safety Products Trading LLC
Nightstick by Bayco Products Inc.
Pacific Helmets (NZ) Ltd.
Safety INXS
Schefferville Trading LLC

Heat & Fire Resistant Clothes & Garments

Ballyclare Ltd.
Honeywell Industrial Safety
KERMEL
Nightstick by Bayco Products Inc.
Parasnath TechGarments Pvt. Ltd.
Raja for Restaurants & Construction
Materials Co.
Schefferville Trading LLC
VF Imagewear Majestic – BULWARK FR
Williamson-Dickie Middle East FZE (Dickies)

Protective Clothing

Ballyclare Ltd.
DELTA PLUS MIDDLE EAST
KERMEL
Midas Safety Products Trading LLC
Parasnath TechGarments Pvt. Ltd.
Raja for Restaurants & Construction
Materials Co.
Schefferville Trading LLC
VF Imagewear Majestic – BULWARK FR
Williamson-Dickie Middle East FZE (Dickies)

Protective Clothing for Fire Brigades

Ballyclare Ltd.
KERMEL
Pacific Helmets (NZ) Ltd.
Williamson-Dickie Middle East FZE (Dickies)

Protective Eyewear/Safety Glasses

DELTA PLUS MIDDLE EAST
Globus EMEA FZE
Honeywell Industrial Safety
KARAM SAFETY DMCC
Raja for Restaurants & Construction
Materials Co.
Safety INXS
Schefferville Trading LLC
Williamson-Dickie Middle East FZE (Dickies)

Protective Gloves

Ballyclare Ltd.
DELTA PLUS MIDDLE EAST
G.B. Industries Sdn Bhd
Globus EMEA FZE
KERMEL
Midas Safety Products Trading LLC
Safety INXS
Schefferville Trading LLC
Williamson-Dickie Middle East FZE (Dickies)

Reflective Materials

Williamson-Dickie Middle East FZE (Dickies)

Uniforms

Nightstick by Bayco Products Inc.
Parasnath TechGarments Pvt. Ltd.
VF Imagewear Majestic – BULWARK FR
Williamson-Dickie Middle East FZE (Dickies)

Suppliers

Al Garawi Group



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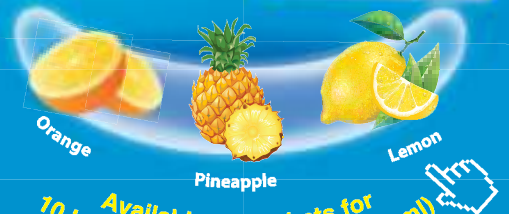
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الملازم أول يوسف عبد الله الحوسني

اللجنة الفرعية المعنية بالأمن القومي - بزيارة إدارة التدريب في شرطة أبوظبي. وفي ذات الوقت، وقعت شركة أبوظبي لبناء السفن، أحد مقدمي خدمات إنشاء وإصلاح وتجديد القوارب البحرية والعسكرية والتجارية، عقدا لتزويد وزارة الدفاع الكويتية ببناء وتوريد ناقلات بحرية وسفن سريعة للحماية تتجاوز قيمتها ٧٠,٧ مليون دولار أمريكي.

أساس إيجابي للدول لتحسين أمنها وقدرتها على درء المخاطر».

وعلى المستوى الدولي أيضا، تحتل شرطة أبوظبي مركز الريادة في تطوير الأمن الوطني بالشراكة مع دول أخرى. ففي شهر سبتمبر/أيلول من العام الماضي، ناقش كلٌّ من شرطة أبوظبي ووزارة الأمن الوطني الأمريكية طرق تحسين مجالات التعاون الشرطي وتنسيق التدريب بين كلا الطرفين. وقام مؤخرا وفدٌ من الولايات المتحدة الأمريكية، برئاسة كاثي كرانيانجر، أمين لجنة الاعتمادات في مجلس الشيوخ الأمريكي -

ويتوقع أحد التقارير الحديثة، الصادرة عن فروست آند سوليفان، نمو سوق الأمن الوطني في الشرق الأوسط بمعدل ثلاثة أضعاف متوسط المعدل العالمي. هذا النمو يوجهه التنوع الاقتصادي وتطويرات البنية التحتية واسعة النطاق؛ مثل مجمع المطار الرئيسي في مطار أبو ظبي الدولي الذي يتوقع له أن يستوعب ٣٠ مليون مسافر سنويا، و٨٥٠٠ مسافر في الساعة.

وقال نائب رئيس اللجنة العليا المنظمة للمعرض الدولي للأمن الوطني ودرء المخاطر، اللواء أحمد ناصر الريسي: «هذا النمو لا يعكس الأوضاع الأمنية المتردية في المنطقة، بل هو



مطار أبوظبي الدولي الجديد .. وتطوير البنية التحتية الواسعة في إمارة أبوظبي





منصة الإعلام الأمني مجهزة بمعدات إلكترونية وبرمجيات حديثة لرصد وتتبع الأحداث على مدار اليوم

حماية الشؤون الداخلية

أعلنت شرطة أبوظبي عن إطلاق منصة الإعلام الأمني، غرفة العمليات المتكاملة والشاملة الأولى في المنطقة. وقد تم تجهيز المنصة بمعدات إلكترونية، وبرمجيات حديثة، وتقنيات عالية الجودة لرصد وتتبع الأحداث الطارئة على مدار اليوم في أبوظبي، وذلك لتوفير تغطية حية ومواد مرئية بصورة فعالة من مواقع الحدث لدعم صانعي القرار.



الرائد فواز علي عبد الله

بطريقة تساهم بشكل أكبر في الحفاظ على الأمن والاستقرار. فهي تنقل رسائل إعلامية شفافة ومتوازنة وشاملة إلى منافذ الإعلام.

يتم الإبلاغ عنها ويتناولها الإعلام». وصرح الرائد فواز علي عبد الله، مدير إدارة الإعلام الأمني في شرطة أبوظبي قائلاً: «تعمل المنصة وفقاً لدليل إجراءات تشغيلية موحدة، وتقدم معلومات إعلامية مطبوعة ومرئية ومسموعة إلى عملاء إدارة الإعلام الأمني للاستجابة للإخطارات والمواقف الطارئة التي وأشار الملازم أول يوسف عبد الله الحوسني، المشرف العام على المنصة، إلى أن «منصة الإعلام الأمني هي إحدى الركائز الأساسية لدعم وتعزيز الوعي بحفظ الأمن والوقاية لدى أفراد طاقم دوريات الإعلام الأمني، وذلك

كل من إصداري ١٥ و ٢١ جول كمجموعة مُركبة على لوحة تسع حتى أربعة مصابيح «زينون Xenon» المتواترة الضوء، مع صندوق توصيل، أو خمسة مصابيح من دون صندوق توصيل. وتعتبر الإشارات البصرية لمصابيح Xenon الجديدة إضافة رائعة لمجموعة منتجات GNEx، والتي تشمل أجهزة إنذار صوتية، ومُكبرات صوت جهورية، ونقاط الاتصال اليدوي لتنشيط إنذارات الحريق واكتشاف الغاز، وأنظمة إيقاف التشغيل في حالات الطوارئ.

البرتقالي والأزرق والشفاف والأخضر والأرجواني والأحمر والأصفر، كقطع غيار منفصلة. ويقل وقت التركيب بفضل التصميم ذي الغلاف المحيط المصنوع من اللدائن المدعمة بالألياف الزجاجية والذي يتضمن مسار شعلة لولبيا ومدخلات كبلات عديدة ومساحة كبيرة للوحدات الطرفية. وتكتمل مجموعة GNEx بصندوق التوصيل GNExJ2 Ex d الذي يضم مدخلات كبلات عديدة. كما أن تكوينات الوحدات الطرفية مناسبة لعدد كبير من التطبيقات. ويمكن أن يتوفر

تخلص من نفايات حقول النفط البحرية على طريقة MAC



سفينة MAC لتحويل النفايات

حقول النفط البحرية، وبسرعة خلصنا إلى: أولاً وجود مشكلة متعلقة بالنفايات، وثانياً إلى عدم استعداد أية جهة لحل هذه المشكلة، وثالثاً إلى أن المشكلة تتعاظم بمرور الوقت». يجدر بالذكر أن وحدة التعبئة في حاويات، والمحددة من قبل DNV، تقلل من حجم النفايات بنسبة تصل إلى ٨٠ في المائة، إلى جانب أنها تقلل أيضاً من الوزن بنسبة تصل إلى ٥٠ في المائة. وذلك باستخدام تقنياتها الفريدة الخاصة بالتبخير والحاصلة على براءة اختراع، لإزالة المحتوى المائي من النفايات.

الأوسط، التعامل مع النفايات الناتجة عن مرافق حقول النفط البرية والبحرية والجزر النائية، إلى جانب نفايات المحليات ومحلات البيع بالتجزئة. وأيضا النفايات المنزلية.

وللتعامل مع الأحجام الكبيرة من نفايات حقول النفط البحرية، طورت الشركة أيضا سفينة تحويل النفايات، وهي مجهزة خصيصا للتعامل مع النفايات التي تتراكم على أبراج الحفر ومرافق حقول النفط البحرية النائية. فالسفينة تقوم بجمع نفايات برج الحفر على متنها، ثم تقوم بتحويلها إلى وقود مستخلص من الفضلات (RDF) أثناء العمل في الحقل، مما يقلل الحاجة إلى إجراء الانتقالات المكلفة من الشاطئ وإليه. كذلك يمكن استخدام السفينة، في الوقت ذاته، كسفينة إمداد وطوارئ مجهزة بمعدات إطفاء الحريق، إلى جانب استخدام أنظمة تسرب النفط واسترداده.

وقال أندي ووك، مدير المبيعات في شركة MAC «لقد ركزنا على المشكلات الحالية، وخاصة في

إن مُحوّل النفايات المُعبأة في حاويات الأول لشركة Marine Assets Corporation لا يتخلص فقط من النفايات، وإنما يجعلها تختفي بالكلية. تقرير حصري من نشرة الصحة والسلامة والأمن - الشرق الأوسط.

فمع تزايد عدد سكان العالم، وتحقيق التقدم التكنولوجي، يستمر إنتاج النفايات في الزيادة مصحوبا ببعض المشكلات؛ مثل الرائحة الكريهة والبكتريا الضارة والتلوث، مما يؤدي إلى انتشار الأمراض والنتائج المأساوية للكثيرين. تخيل الآن أن النفايات بحالتها المألوفة قد أصبحت شيئا من الماضي، وأن هناك نظاما لتحويلها إلى وقود مفيد، إلى جانب منتج ثانوي وهو الماء. تخيل أيضا تأثيرات ذلك على البشرية والحياة البرية والبيئة.

شركة Marine Assets Corporation (MAC) طورت، مع شركائها، نظاما فريدا للتعبئة في حاويات للقيام بذلك. إذ يمكن لحاوية تحويل النفايات، التي تُطرح لأول مرة في أسواق الشرق

مفكرة رجال الأعمال ٢٠١٦

أبريل/ نيسان

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٩-١٢ مؤتمر ومعرض معدات العمليات الخاصة. SOFEX.

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١٦-١٨ المعرض السعودي للسلامة والأمن. SSS Arabia

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٢١-٢٣ معرض السلامة والصحة

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خطط للطوارئ من أجل ضمان تقديم خدمات كاملة للحجاج هذا العام

الحرام، وسوف يناقش المشاركون أيضاً الخطط التشغيلية لكل وزارة ودائرة حكومية تشارك في تقديم خدمات الحج. وأضاف: «سيتمولى الدفاع المدني التنسيق مع جميع الأطراف المعنية لتحسين هذه الخدمات، مع الأخذ في الاعتبار الدروس المستفادة من موسم الحج في العام السابق ولا سيما حالات التدافع».

درجات الأمن والسلامة للحجاج. وأضاف: «تدرج ورشة العمل ضمن الاستعدادات المبكرة لموسم الحج لضمان نجاح جميع المراحل والخطوات». وقال العمرو إن ورشة العمل ستناقش خطط الحج للعام الأخير لأخذ الدروس المستفادة، كما ستراعي خطط التطوير الجديدة التي جرى تنفيذها هذا العام في الأماكن المقدسة والمسجد

عقدت المملكة العربية السعودية ورشة عمل، على مدار ثلاثة أيام، لمراجعة خطط الطوارئ خلال موسم الحج. وقد أخذت في الاعتبار التطورات الجديدة، والتغيرات التي طرأت على مشروعات التطوير المتواصلة في الأماكن المقدسة في أنحاء المملكة. وقال الفريق سليمان العمرو، مدير عام الدفاع المدني السعودي، إن الاجتماع قد تم بتوجيهات من ولي العهد، محمد بن نايف، نائب رئيس الوزراء وزير الداخلية ورئيس لجنة الحج العليا، إلى ٢٣ وزارة ودائرة حكومية، لمراجعة خطط الطوارئ الخاصة بموسم الحج، وذلك من أجل ضمان تقديم خدمات كاملة للحجاج، حسبما ذكرت جريدة «سعودي جازيت». وأضاف المسؤول أيضاً بأنه من المزمع تكوين مجموعات مشتركة تضم متخصصين في صياغة خطط الطوارئ لتطبيق خطة الطوارئ لموسم الحج. وأشار العمرو إلى أن ورشة العمل ستناقش التقنيات وإجراءات التخطيط الحديثة لتقليل المخاطر خلال فترة الحج، وقال: «سوف تناقش ورشة العمل كذلك خطط الإجراء الطبي في حالات الطوارئ، ودور المنظمات الخيرية، ووسائل الإعلام في تطبيق خطة الطوارئ الخاصة بموسم الحج». وأشار العمرو إلى أن الحكومة ستستعين بجميع مواردها البشرية والمادية لتوفير أعلى

إضافة مصابيح الضوء المتواتر E2S Xenon إلى الإشارات التحذيرية

أعلنت الشركة المستقلة لتصنيع الإشارات التحذيرية، E2S Warning Signals، إضافة الإشارات البصرية إلى عائلة منتجات GNEx المانعة للانفجار والمقاومة للتآكل. وتتميز مصابيح GNEx بتحمل نطاق أوسع من درجات الحرارة، وهي حاصلة على تصديق IECEx و ATEX Ex d وملائمة لجميع تطبيقات إشارات تحديد المواقع الخطرة للمنطقة ١، ٢، ٢١، و ٢٢. ويتوفر مصباح GNExB2، سواء للإضاءة المحيطة الشديدة أو لإرسال الإشارات لمسافات طويلة، بأنواع ١٥ و ٢١ جول تنتج حتى ٩٠٢ شمعة، مما يجعل مصباح «زينون Xenon» ذا مخرج عالٍ للغاية. أما مصباح GNExB1 الأصغر حجماً، فهو متوفر إذا كانت وحدة الخمسة جول (حتى ١١٧ شمعة) تفي بالمتطلبات. وهناك ثلاثة أنماط للوميض ومرحلة ثانية يتم ضبطها من قبل المستخدمين، وهي ميزة قياسية في جميع مصابيح GNEx. وفقاً للنموذج الأساسي ومصدر الطاقة (تيار مباشر أو متردد). كما يمكن بسهولة إزالة ومرشح العدسات في الموقع بسبب تغير الألوان. وتتوفر عدسات مقاومة للأشعة فوق البنفسجية من البولي كاربونات بألوان



مصابيح زينون للضوء المتواتر إضافة مائلة إلى عائلة GNEx

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حماية الشؤون الداخلية

تقرير حول الخطوات الفعالة التي تتخذها عاصمة الإمارات العربية المتحدة من أجل حماية الإمارة من أية مخاطر.

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