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Health, Safety & Security Review

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Middle East

RAISING THE STANDARD

Qatar takes steps to boost worker welfare in the run-up to the 2022 FIFA World Cup

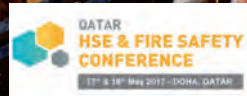
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Inaugural Qatar HSE & Fire Safety Conference

Selecting the right footwear for the job

Improving safety by reducing wasteful processes

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AS QATAR'S PREPARATIONS advance for hosting the 2022 FIFA World Cup, we report on the steps being taken to improve standards for worker welfare, spearheaded by the Supreme Committee for Delivery and Legacy (SC) (p20). Much progress has been made, but there is still some way to go. Our Qatar HSE & Fire Safety Conference 2017 (p22) will provide a timely forum to share ideas and expertise on HSE issues and challenges. Also in this issue we focus on offshore personnel safety (p10) and PPE (p18), including our Annual PPE Buyers' Guide on p34, as well as previewing leading upcoming events including Intersec Saudi Arabia (p24).

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Restrata to launch security solution for firms in Basrah

SECURITY

UAE-based Restrata, a global security solutions provider, is set to launch its new web-based portal which brings together up-to-the-minute information on key security developments in Iraq and the implications for companies operating in the region.

The portal will serve as a platform to provide reporting and longer-term situational risk analysis conducted by its Business Solutions Operation Centre (BSOC) in Basrah.

Restrata is co-located with the Basrah Operations Command (BaOC), the main headquarters of the Iraqi Security Forces (ISF), and provides a liaison between ISF and International Oil Companies (IOCs) and private business.

Promoting freedom of movement, emergency liaison and information and analysis through bespoke and regular reporting, the online portal will offer comprehensive current situation assessment and analysis, as well as an archive of historic material.



Restrata's new portal will advise firms of the current security situation in Basrah. (Photo: Restrata)

Information provided by BSOC allows organisations to plan and implement safe journey management with real time situational awareness. Through liaison with the 24/7 Control Centre companies can gain assistance in dealing with any difficulties that may occur and responding to incidents. Through the BSOC, the Iraqi Security Forces can be called upon to support subscribers in emergency situations.

Botan Osman, managing director at Restrata, said, "It is critical that organisations planning on conducting

commercial operations are able to fully assess the situation in Iraq. The BSOC has a unique relationship at the heart of command in the region and has a strong and effective working relationship with the authorities in Iraq. This provides the most complete service available for those looking to minimise the risks to personnel and equipment."

"Operating conditions can change very quickly and the best way to stay informed is by using a service that continuously monitors the situation in the country in real-time," he added.

UAE health and safety qualifications review calls on IOSH expertise

CERTIFICATION

A major industry review into health and safety qualifications in the UAE has called on the expertise of an IOSH branch to help with its development. The review is examining the qualification framework, which ranges from a Level 3 certificate up to a Level 6 diploma.

Members of the institution's UAE branch are working with the Abu Dhabi Vocational Education and Training Institute (ADVETI) and the UAE National Qualifications Authority (NQA) on the development of the National EHS (environment, health and safety) Framework. Two branch meetings, one in Abu Dhabi and the other in Dubai, have provided members with the opportunity to take part in the review.

At the meetings, they were provided with an overview of the framework development and how it relates to others around the world before being asked to examine the occupational profiles for an environmental and occupational health inspector.

Digital emergency response standard receives industry support

EMERGENCY RESPONSE

More than a dozen training providers from as far as the UK, Netherlands and Brunei to Australia, Abu Dhabi and the US have signed up to become champions of the Digital Standards Integration, an industry programme to create regulated, consistent online safety and training Standards with world-class credibility and compliance.

Companies including Maersk Training,

IFAP, MTC International, ERGT Australia, STC-KNRM Offshore Safety, AIS Group, Shell Roberts, M&A Safety Services, Petans, Bastion Technologies, GTSC, Yassine Marine Services, Survival Systems India and Megamas Training will all contribute to the creation, testing and pilot of the digital integration ahead of its launch later this year.

An integral part of ensuring the new digital standard is robust, practical and fit for

purpose, the training providers will be involved in shaping the knowledge and learning elements that will transfer from the current standard into the digital version. Some training providers will also make their facilities available for filming live sequences that will be incorporated into the digital elements of the BOSIET course.

The Digital Standards Integration project is spearheaded by OPITO.

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Borouge receives four OHSAS and ISO certifications

CERTIFICATION

Borouge has been awarded four international certificates in recognition of its strong commitment to ensuring employees' health and safety at workplaces and effectively managing its quality performance and reliable control of environmental impacts.

The company has been awarded two OHSAS 18001:2007 certificates in recognition of its Occupational Health and Safety Management System. The certificates were handed over to Borouge by ABS Quality Evaluations, a USA-based international certification and auditing body, upon auditing the rigorous implementation of Borouge's Health and Safety Management System upholding its commitment to safe operations at the company's plants in Ruwais as well as its offices across the Middle East and Asia Pacific regions.

Another two ISO 9001: 2008 and ISO 14001:2004 certificates were granted by RINA Services to



The certifications are a validation of the company's commitment to ensuring employees' health and safety at workplaces. (Photo: Borouge)

the Borouge Innovation Centre in recognition of its quality and environmental management systems. The certification helps companies have a systematic approach to continuous improvement of their operations, customer satisfaction, environmental controls and effective, corrective and preventive actions on the identified and potential nonconformities.

"We are very proud to be granted four prestigious certifications by two international certification bodies in

recognition of our management systems at Borouge's operation facilities and offices as well as our Innovation Centre in Abu Dhabi," said Ahmed Omar Abdulla, CEO Abu Dhabi Polymers Company (Borouge). "This achievement is another milestone in the history of Borouge and it's all attributed to the team work of our dedicated people who were fully committed to maintain a safe workplace at our operational plants in Ruwais and Shanghai as well as at our offices in the Middle East and Asia Pacific."

Training event to fight growing cyber threats in Saudi Arabia

CYBER SECURITY

SANS Institute, which specialises in information security training, will host a set of instructor-led classroom trainings in Riyadh from 6-11 May 2017 with the aim to arm organisations in the Kingdom with the knowledge and skills needed to prevent and mitigate the impact of cyber-attacks. Each of four courses at SANS Riyadh prepares students to take the associated globally renowned GIAC certification exams.

"SANS Riyadh 2017" will feature four courses, covering cyber security essentials as well as in-depth hands-on trainings on the key topics of network forensics and analytics, hacker tools and techniques, and penetration testing and ethical hacking.

"Cyber security is a hot topic in Saudi Arabia as the country has been the epicentre of multiple large-scale politically and financially motivated attacks," explained Ned Baltagi, managing director, Middle East and Africa, at SANS.

RTA launches Vehicles Safety Service Centre

ROAD SAFETY

The Dubai Roads and Transport Authority (RTA) has opened the Vehicles Safety Service Center at JAFZA. The centre provides the services of installing remote monitoring devices for detecting faults of heavy vehicles, which have completed more than 20 years in service. About 300 trucks have been fitted with the service during last February. This project is implemented in support of the Smart City initiative of the Dubai

government. It conforms to the strategic objectives of Dubai and the RTA aimed at improving the traffic safety and road security by reducing accidents of heavy vehicles.

The service is intended to classify the risks posed by vehicles, drivers and transport companies with the aim of easing the burden on compliant parties and applying a more rigorous approach to defaulters.

It will also reduce the frequency of stopping compliant vehicles on roads for on-road

inspections according to the risk rating given using the information generated by the technical inspection and vehicles safety system.

This will contribute to improving the safety of vehicles and traffic and curbing accidents by enhancing the monitoring regime, improving the environmental sustainability and offering new government services. Such services have to be enabled via smart devices configured with electronic systems and linked with the smart monitoring centre of the RTA.

What plans do your business have for emergency evacuation?

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→ events calendar 2017

May			
2-4	Intersec Saudi Arabia	JEDDAH	www.intersec-ksa.com
8-11	Project Qatar	DOHA	www.projectqatar.com
17-19	Qatar HSE & Fire Safety Conference	DOHA	www.hse-forum.com/qatar
June			
20-22	Safety & Health Expo	LONDON	www.safety-health-expo.co.uk
October			
8-9	3rd Annual Health, Safety & Security Forum	DUBAI	www.hse-forum.com
9-11	OFSEC	MUSCAT	www.muscat-expo.com
15-18	Kuwait Oil & Gas Expo & Conference	KUWAIT	www.kogs2017.com
17-20	A+A 2017	DUSSELDORF	www.aplusa-online.com
November			
5-7	ASIS Middle East Security Conference & Expo	MANAMA	www.asisonline.org
13-16	ADIPEC	ABU DHABI	www.adipec.com
December			
3-6	MEFSEC	CAIRO	www.mefsec.com

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

BE SAFE SOHAR 2017 the biggest yet

ROAD SAFETY

The 2017 edition of the annual BE SAFE SOHAR event took place at the end of March in collaboration with the Royal Society for the Prevention of Accidents (ROSPA), Lifeline Hospital, TRISTAR, Sohar Institute for Management and Technology, Public Authority for Civil Defence and Ambulance, Abdul Aziz and Brothers LLC, Ministry of Manpower and the Royal Oman Police.

“This year’s BE SAFE event was bigger and better than ever,” said Suwaid Al Shamaisi,

executive manager Corporate Affairs at SOHAR Port and Freezone, which organised the event.

“A three-day exhibition of specialised, international safety equipment at our SOHAR HQ building was the focal point for a wide variety of events that targeted stakeholders from right across our tenant industries.”

With investments of US\$26bn and now handling more than one million tonnes of cargo a week, Sohar ranks as one of the world’s fastest growing port and free zone developments. This year’s events

included a blood donation campaign to restock blood banks in local hospitals; first-aid and CPR training sessions; and a wide variety of seminars with sessions on safety leadership; SEVESO - European Safety Standards; road transport safety; terminal operations safety; and a behavioural safety workshop.

In addition, road users were invited to attend defensive driving courses led by CPS, with activities that highlighted the need for a focus on local road safety both inside and outside the Port and Freezone areas.

“There is still a lot to be done in terms of educating Oman’s road users about the day-to-day risks involved with driving, especially in higher risk areas like our Port,” explained Mark Geilenkirchen, SOHAR Port and Freezone CEO.

“The safety of our staff and of all road users at SOHAR Port and Freezone is critically important to us and we will continue to work on an on-going basis with the ROP and all other relevant authorities to continually reduce the number and the severity of road accidents in the Sultanate.”



QATAR HSE & FIRE SAFETY CONFERENCE 2017

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Qatar has recognised the need for international standard compliance and is updating their labour law to improve the current working environment. The country is bolstering existing legislation resulting in tighter regulations on fire safety, making it crucial to educate industry on developing and implementing well-planned health and safety strategies.

With all the uncertainty in the industry, do you know how this affects you and what changes you need to implement?

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Senior Safety Engineer, Quality & Safety Department
ASHGHAL

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Safety Specialist, Quality & Safety Department
ASHGHAL

Alan Crawford - CMIOSH

HSE Specialist
Supreme Committee for Delivery and Legacy 2022

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Key topics to be addressed:

1. The road to zero accidents - a zero tolerance approach
2. Construction site safety
3. Emergency preparedness
4. Mock Court Trial and Discussion - workplace health and safety
5. Evacuation - a no-nonsense approach
6. Fire resistance vs. Reaction to fire - testing and certification

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Transferring offshore personnel safely



Health, Safety & Security Review Middle East speaks with Sandra Antonovic, COO of Reflex Marine, which specialises in solutions for marine personnel transfer.

What are the main safety challenges in marine personnel transfer, and how is Reflex Marine addressing these?

The subject of personnel transfer offshore is sometimes made excessively complicated. Essentially, it means getting people to and from work. There are two predominant ways of transporting people offshore – air transfer by helicopter, and marine transfer, where the main options are gangway or crane transfer. The most important safety challenges in offshore personnel transfer are related to weather and sea conditions. We address those issues through the design and engineering of our carriers.

We started by comprehensively reviewing crane transfer operations, using data sourced from operators and public sources. Analysis of these data, to

understand the root cause of incidents (so that we could design a product that could reduce and mitigate those risks) confirmed the four key risks associated with crane transfer of people – falling out; injury caused by side or lateral impact; injury caused by vertical impact; and injury or drowning if the unit falls in the water.

Reflex Marine’s designers and engineers adopted methodologies similar to those used to evaluate the safety performance of motor vehicles and assess the risk of injury.

Immersion was a lower order risk, but still viewed as important for passenger reassurance. The carrier was hence designed to float and self-right in all load conditions. Vessel motion, crane speeds, sea states and the impact on the human body were among the criteria assessed. Reflex

Marine also developed a rigorous testing and verification program to confirm that these objectives had been met.

What are the main benefits of your products ?

By subjecting our carriers to scrupulous testing programmes referencing biomechanical studies carried out by automotive crash test experts, we ensure that our products help operators transfer their people offshore in a very safe, simple and cost-effective way. We have a very affordable product for oil and gas and marine companies. The cost of buying one of our products is minimal compared to other costs they incur in their offshore operations.

In the past eight years we have had no reported incidents of people being hurt or injured when using our products. You often read about helicopter

“We offer a solution where you don’t have to compromise on safety to have a cost effective way of moving people back and forth.”

ABOVE: The FROG-XT crane transfer solution in action

incidents. While helicopters are comfortable and convenient for transferring personnel offshore, they're also very expensive; and when something goes wrong, because of the complexity of the helicopter operation, it can go very wrong. Personnel transfer by crane takes just a couple of minutes, so the risk time is short compared to using a helicopter, which helps with mitigating risks. Being a simple method of transfer it is also more easily controlled. Sometimes companies tend to overcomplicate matters - it is often better both in the short term and in the long run to use something which is very safe, easy to use, comfortable and cost-effective. Companies which operate offshore have so many expenses and face constant pressure to cut costs. We offer a solution where you don't have to compromise on safety to have a cost-effective way of moving people back and forth.

How important is the Middle East to your global business and how do you view prospects in the region?

For over 20 years Reflex Marine has been providing safe access solutions to the offshore industries. Our first market was offshore oil and gas, but we are now supporting clients in other offshore sectors, like merchant marine, LNG, tanker industry, also offshore civil engineering, navy and coast guard.

The importance the Middle East plays in all those offshore industry sectors is undisputed and obvious, so it is no surprise that this region has a pivotal role in our activities. We've been supporting offshore companies in the Middle East for more than 10

years now. Last year it became clear that we needed to have a local presence in the region to be able to work more closely with growing number of companies that were looking for our support and expertise. I relocated to Abu Dhabi in March 2016. I travel frequently throughout the region, meeting offshore operating companies and making sure we at Reflex Marine understand their operations, challenges and needs. We work with these companies on assessing risks and defining the best crew transfer option for them, even if it sometimes means going with a different product or crew transfer solution. There is a clear and growing demand for our products, whether as a first option for personnel transfer or for contingency. The region's national oil and gas companies in particular recognise the benefits of our products, and we are working with them and with their subcontractors to help put in place safe and cost efficient crew logistics plans.

What are your plans for developing your business in the region?

While we've been working in the Middle East for more than 10 years, this last year when we have had a physical presence has been the true game changer for us and it's been a very good year. Now it is much easier to meet companies, understand how they work, what are their challenges and their needs. We have grown not only in understanding the market, but also in terms of advising companies on choosing their transfer method. We connected with many clients but also with regulatory bodies, gaining an understanding on

what drives offshore safety and efficiency decisions in the region. Once you understand the decision-making process it's

“Middle East NOCs are open to innovation and new ways of doing things, and have the capital to invest.”

much easier to offer a solution in a way that people can understand and take on board. I could describe these last few months as a steep learning curve and a networking whirlwind! The importance of meeting people face to face and giving them your most valuable commodity – your time and attention – has never been more important. Same goes for “think global, act local” approach. Learn, adapt and focus has been my mantra over the last year and I very much enjoy the experience and the work we do.

Our focus will continue to be on NOCs, but we will also look to expand our business with international oil companies and their subcontractors. Being able to respond quickly and being able to transfer our knowledge and apply it in the right way made a huge difference in the way how we interact and work with our clients. There is a sense of a profound collaboration and trust on both sides.

What has been your experience of doing business in the Middle East?

When we first entered the Middle East I am not sure we appreciated as much as we should have the difference in mindset and in the way things are done. However, once we did our homework and understood the local particularities and what drives the decision-making processes, everything became much easier. The NOCs in the Middle East draw on knowledge and experience from the North Sea and North America, countries with established, professional and structured ways of approaching safety. They are open to innovation and new ways of doing things, and have the capital to invest once they've decided on what is best for them. In that sense they're often easier to work with than companies in the West, which have been hit hard by the oil price crisis and had to cut costs in an almost dramatic way.

To what extent has Reflex Marine been affected by the low oil price environment?

Our revenue and operations have been affected, but as a person in charge of our market development and expansion I believe the oil price crisis was the best thing that could have happened to us. We went through rapid and profound change as a company, and emerged leaner, more flexible and more market oriented. It pushed us outside our comfort zone, and made us focus on and explore areas where there are tremendous opportunities, such as offshore civil engineering, tankers, LNG, coastal guard. This financial year we have recorded over 30 per cent growth, and we are looking forward to further expansion.✦

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Reduce wasteful processes, IMPROVE SAFETY

Scott Bredin, operations executive, Adapt IT, discusses how to improve safety by targeting wasteful permit and lockout processes.

All too often the permit and lockout processes required for maintenance activities are regarded as wasteful expenditure of time and resources. In some cases, this attitude stems from a legislative compliance focus. “We need to get our plant up and running as soon as possible, and regulations compel us to fill in these forms and get them signed by this manager, and then counter-signed by that specialist who is never in his office...” The bureaucracy gets in the way of our understanding of the true value being sought.

If we express the value required from the permit to work (PTW) process as “ensure the safety of all

personnel involved in maintenance activities”, we can apply value stream mapping techniques to identify inefficiency and disorganisation throughout the workflow. Removing steps in the process that fail to add value is a method proven over decades in a range of settings. Let’s take a brief tour of some of the classic wastes associated with permit and lockout processes.

Waiting

Frequently, PTW systems are not designed to actively facilitate visibility of work in progress. Information is dispersed across multiple permit books, or limited to inaccessible permit issue offices. This means that



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dependencies between tasks are not clear, and neither is the potential to introduce additional hazards through unplanned work group interactions.

A lack of visibility on the current state of permits increases the risk of lockout officers being unprepared for lockout requests and contractors having to wait for sections of plant to be made safe.

Defects and over-processing

It is important that organisations understand the waste associated with lockout requests that are not accurate. Obviously, it is critical that all sources of potential energy are isolated and locked out – after all, this is the purpose of the process! However, there is significant cost in including unnecessary lockout points: consider the steps required to identify, isolate, lock and tag, test for dead, de-isolate and check the running state of each lockout point. Ultimately, the wasted effort impacts on safety, with a greater propensity for personnel to rush through long lists of redundant lockouts.

Ideally, these scenarios are best engineered out of the system with well-designed process/covering lockouts. Additionally, standardisation of task and job-specific lockout procedures ensures that the correct lockouts are identified for implementation.

Similarly, many of the forms that we require personnel to complete are rife with information that is not relevant to the task at hand. The requirement for auditable permit documentation means that each element needs to be checked or scored out. Static forms waste time and frustrate people who are trying to focus on getting a job done safely.



By building more responsive and relevant processes, the engagement of personnel can be improved. (Photo: Thanapun/Shutterstock)

Over-production and excess inventory

PTW and lockout are integral to shutdown planning. Maintenance shutdowns are massively expensive exercises, typically incurring large contractor and material bills as well as the opportunity cost of lost production. Failing to prepare the PTW and lockouts for a shutdown job, or doing so for tasks that don't get performed in the shutdown window, is a major waste. Preparing for jobs that don't get done can be thought of as building work-in-progress inventory whose value is immediately written off at the end of the shutdown. Not only is time squandered on the task not performed, but scarce skills are diluted from the critical tasks that are finally performed.

It is important for the performance of the PTW and lockout processes to be reviewed in detail following a shutdown to identify waste, and for this

learning to be built into future plans.

Driving operational excellence

Building PTW and lockout systems around Adapt IT's IntelliPERMIT, organisations are able to significantly reduce waste from the PTW and lockout processes. Permits are streamlined to include only the relevant hazards and controls – reducing the scope for defects and focusing personnel on the information relevant to the task at hand. By collating the previously disparate permits and certificates into a single work pack, authority is correctly delegated, and waiting time is reduced. This hazard-centric approach similarly ensures that processes only include the certificates and controls required for the particular task under consideration. Should either the content of the permit forms or the workflow process require modification, these improvements can be rapidly implemented while

retaining the appropriate controls.

The metrics provided by the system on preparation, waiting and tool time are a valuable planning resource for future shutdowns. Measuring the velocity of permit processing and time to isolate equipment on the critical path of a shutdown means that the performance benchmarks can be established.

By building more responsive and relevant processes, we increase engagement of personnel as they can more clearly see how each step in the process contributes towards a shared value: the safety of themselves and their colleagues. Eliminating waste allows the participants to understand their role in the process and to concentrate on their primary objectives. Finally, the safety systems we implement need to encourage improved communication between people, rather than a narrow focus on compliance. ✦



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Protect your workforce with Scott Safety personal protective equipment.

- Scott Safety is a global leader in the design and manufacture of innovative personal and respiratory protective equipment.
- Our products protect thousands of workers each day from industrial hazards.



SAFETY
HELMETS



RESPIRATORY
PROTECTION



EYE
PROTECTION

PPE
Range
Now
Available

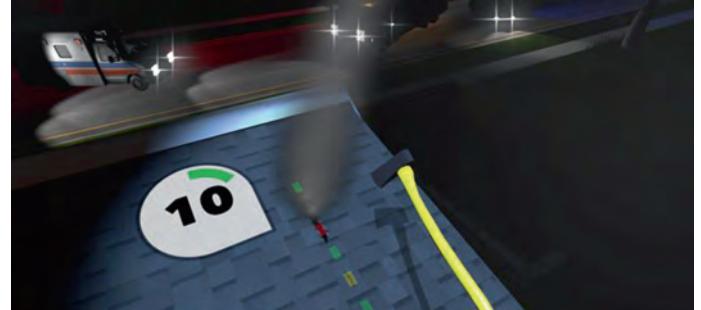
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PPE Focus

Personal Protection Equipment is becoming a more **pressing topic for companies across the Middle East.** We explore some of the latest equipment news and technology.



EU legislation to lead the way?

LEGISLATION

The European Commission has proposed to replace European Union directives governing the safety of personal protective equipment and cableways installation by directly applicable regulations. This means 56 pages of national legislation, piling up to hundreds of pages, will be scrapped, streamlining the business between the nation states. The proposal will help ensure that products marketed as safeguarding the user against certain risks – e.g. "this product protects against heat of up to 100°C" – fulfil their claims. The two regulations proposed cover a very wide range

of products designed for both consumers and professionals, including bicycle helmets and cable cars.

If passed, the new legislation may well lead the global safety levels and minimum standards for manufacturers and companies across the world. European Commission Vice-President Antonio Tajani stated, "More coherent rules for personal protective equipment and cableway installations will lower businesses' compliance costs, especially for small and medium-sized enterprises. Companies doing business in the EU would be able to refer to one single legal text."

Globe demonstrate ATHLETIX™ at FDIC International 2017

FIRE SAFETY

Globe Manufacturing Company has launched ATHLETIX™, a new turnout gear for firefighting personal protective equipment.

Globe ATHLETIX™ won the 2016 International Achievement Awards, Award of Excellence and Best in Category for Advanced Textiles by Industrial Fabrics Association International. IAA recognises excellence in design and innovation in the specialty fabrics and technical textiles industry. At FDIC 2017, attendees were invited to experience the range of motions that the new Globe ATHLETIX™ turnout gear offers wearers in a specially designed Virtual Reality booth, in which users can use the new gear first hand. Rob Freese, senior vice president of marketing at Globe said, "When we previewed ATHLETIX™ at FDIC last year, we were continuing our 'voice of the customer' process that inspired this revolutionary change in turnout gear design and capability. With the certified garments at the show this year, Globe is delivering turnout gear that firefighters want and that enhances their performance. We are proud to continue delighting our customers after 130 years."

Global PPE market will increase by 6.4 per cent until 2022

PPE MARKET

Zion Market Research has forecasted that the global personal protection equipment market will increase by 6.4 per cent annually from 2017 - 2022. Zion Market Research, a market research company which provides reports and high-end data analytic solutions, has recently released a report entitled "Personal Protective Equipment Market (Hand Protection, Fall Protection, Protective Clothing, Professional Footwear, Head Protection, Respiratory Protection, and Others) for Construction &

Manufacturing, Oil and Gas, Health Care, Petrochemicals, Food Industry, and Other Applications: Global Industry Perspective, Comprehensive Analysis, Size, Share, Growth, Segment, Trends and Forecast, 2016 – 2022."

It states that the global personal protective equipment market in 2016 was valued at around US\$39.37bn. It is expected to be valued at over US\$57bn globally by the year 2022, growing at a CAGR of 6.4 per cent between 2017 and 2022.

According to Zion, "An increasing number of

organisations worldwide are now becoming proactive regarding employee health and safety. Technological innovation and shifting consumer preference towards protective equipment are driving the market of personal protective equipment. Increasing foreign investments, high industry growth, and stringent safety regulations can augment the demand for personal protective equipment worldwide. However, pricing pressures and increasing commoditisation of products can impact the growth of the market."



Finding your feet

Comfortable footwear can make or ruin your day, but the right footwear for a specific application can sometimes be a case of life and death. Kestell Duxbury writes on its importance and features to look out for.

“25 per cent of UAE companies do not provide PPE to their employees” - Construction Safety and Health Performance

Michael Kosman Zekri,
Heriot-Watt University
(Source: Researchgate)

The Middle East’s safety record has come a long way in the past decade.

However, 48 per cent of occupational injuries in Saudi Arabia happen in the construction industry.

With the number of safety regulations in Dubai, for example, it can often be difficult to know what equipment is suitable for each application. Many contractors go by the European EN standards, such as EN471 visibility standard. In the construction sector, foot crushings from dropped objects can be a real concern for site managers and workers alike, so adhering to the EN ISO 2345: 2005 standards protects workers to a minimum 200 joules impact resistance and a 15KN compression test. Standards like this help protect workers and save money and time in high-pressure sectors such as construction.

Examples of guard protection can be seen in HYTEST Safety footwear, who introduced the metatarsal guard. Along with guarding a crucial part of the foot, the HYSTEST Super-guard X moves with the wearer, providing protection without compromising comfort.

Brands such as Scruffs, which have recently been added to the RS Components range, include safety features for other applications. The Grind S3 rated boot includes a GORE-TEX laminate, steel toe and composite midsole, while the Cheviot, another S3 rated boot, has an aluminium toe, lowering its weight, making it more appropriate for those who walk and move around move.

Smart Trade Shop are offering its own protective footwear in an easy-to-read user guide on a variety of styles, including smart shoes for supervising engineers who have to visit sites which require protective footwear to be worn. For example, Green Triangle indicates that it is a class 1 toe cap with puncture resistant sole; Yellow Triangle is a class 2 toe cap with puncture resistant sole; White Square indicates electrical protection.

There are some boots which are crucial to the wearer and their

colleagues’ safety because of the material of the outsole. The Commander-X5 outsole is resistant to chemicals, oil, gas, slipping, marking, and contains a nylon shank for added support. While this seems like a very capable boot, it may not be suitable for all applications. The KEEN Davenport is a medium-duty workboot, but is 100 per cent metal free, making it safer in some technical, electrical and magnetic environments.

Lehigh’s Quick collection has been specifically designed for protection against electrical hazards. Again, dependent on the application, these may be the boots for you. The Quick collection also benefits from featuring four distinctive styles, from a smart, composite-toe option, to a steel-toed option for a heavy equipment environment.

Having these options can protect workers from onsite hazards, but it can be critical to ensure that the correct footwear is being worn, otherwise, protection against chemicals or electrical shocks can be compromised, or be non-existent. It is advisable to go use the European standards for safety clothing to ensure that the product you are purchasing is indeed correct for the job. ♦

ABOVE: The latest Honeywell Energic. (Image source: Honeywell)

Raising the standard

Qatar is taking steps to boost health and safety for workers putting together the nation's new sporting infrastructure. Progress is being made, but work is still to be done. Martin Clark reports.

Qatar has not had the easiest of times in the press when it comes to health and safety issues, especially on sites being developed for the 2022 FIFA World Cup. While officials are always keen to play down any fuss, a series of incidents and accidents in recent years underscores the importance of the matter – and, tragically, some key failings.

Most recently, a British man died after falling off a suspended platform while working on the Khalifa International Stadium. It was only the latest occurrence that has troubled health and safety watchdogs, including Amnesty International, which last year raised the alarm about conditions for workers refurbishing the stadium. It has accused Qatar of using forced labour and follows previous reports in 2015 of some 1,200 workers who had died constructing buildings for the World Cup.

Making headway

Things may be changing for the better, however. Ethical trade consultancy Impactt Limited recently conducted a study on the implementation of Workers' Welfare Standards (WWS) for Qatar's big sports sites. It was appointed last year by the Supreme Committee for Delivery & Legacy (SC) – the body set up



to deliver the World Cup infrastructure – as an external compliance monitor tracking contractors and subcontractors involved in the big stadium projects. The SC is also working with Building and Wood Workers' International (BWI), the international trade union confederation, to monitor and report on health and safety, specifically on sites – it announced the first joint inspections on 2022 projects with the SC in February.

In an April report, Impactt says the SC has made a “considerable effort” in developing its standards and putting in place new monitoring systems as part of the

“The region's reliance on migrant workers from poorer countries means there is a high risk of labour abuses, according to Impactt.”

*Qatar is building eight new stadia for the FIFA 2022 World Cup.
(Photo: EQRoy/Shutterstock)*

overall journey to raise working conditions and improve health and safety. Its findings were based on a nine-month research period in which it looked at three main contractors and seven subcontractors involved in Qatar's sports infrastructure roll-out.

Regional challenge

Ensuring labour standards in the Middle East is never easy, however. The region's reliance on migrant workers from poorer countries means there is a high risk of labour abuses, according to Impactt. Laws are often not in compliance with International Labour Organisation (ILO) Conventions.

*Qatar is sharpening the focus on worker welfare.
(Photo: yottana Contributor Studio/Shutterstock)*



“It is unsurprising therefore that researchers and campaigners have identified significant abuses at many of the high profile construction sites across the region, including in Qatar, and in relation to workers on tournament projects,” the consultancy notes.

Concerns have focused on diverse areas and abuses ranging from recruitment fees, employers retaining workers’ passports or identity documents, contract substitution, late payment of wages, differential wages depending on nationality of the worker, and poor working and living conditions.

Qatar itself has responded, taking the matter seriously. In 2013, the SC published a Workers’ Charter to protect the health, safety and security of workers, followed a year later by the publication of the WWS. Then, in 2016, it published an updated version of the WWS, now mandatory for contractors working on SC projects.

Progress, not perfect

The Impactt report also details any non-compliances, and the steps taken to address these areas. It found relatively high levels of compliance in contracts and administration, end of service procedures, health and safety management, and management of workers’ personal documents, living and transportation. “There is solid progress, but not yet perfection,” it notes.

The lowest levels of compliance were recorded in due diligence, recruitment policies to ensure fair treatment, and completion of some aspects of worker induction. Low compliance was also seen in complex areas such as worker representation, treatment

of workers, disciplinary procedures and grievance mechanisms. Unsurprisingly, it adds, subcontractors further down the chain tend to have more severe and numerous issues than the main contractors.

Industry solutions

Industry is also responding, offering solutions geared to easing some of Qatar’s challenges. In some cases, these are drawing on state-of-the-art technology to aid workers’ safety and comfort.

Tech provider Qatar Mobility Innovations Centre in Doha recently unveiled a new product that puts real-time and historical information on weather, air quality and radiation in the hands of those who need it most – data that could boost the safety of labourers at work on project sites. Heat and humidity information can alert staff to potentially hazardous conditions, the company says. QMIC chief executive Dr Adnan Abu-Dayya says the new product is a tool in supporting the safety of labourers.

“It involves all the stakeholders right from decision makers to end users,” he was quoted as saying in the Gulf Times newspaper recently. “It will show the world that we are doing our part to help the labourers. Hopefully, it will enhance the welfare of a great section of the population.”

Protective headgear

Another innovative product is a cooled helmet designed and developed by researchers in Qatar that has the potential to significantly reduce the skin temperature of construction workers by up to 10 degrees centigrade. It could allow for safer and more comfortable working conditions in the hot summer months, reckon scientists working on the new system at Qatar University. Large orders for the solar-powered helmet have already been placed

to distribute among workers.

“This type of body-based cooling technology has been used before in US sports for training purposes in hot states, but we have now developed this innovative solution for the construction sector and we believe it has the potential to revolutionise the construction industry in hotter areas of the world,” says Dr Saud Abdul-Aziz Abdul-Ghani, Professor at the College of Engineering at Qatar University.

The concept uses a solar-powered fan to blow air over a cooled material at the top of the helmet, which then comes down over the front of the person’s face to provide a cooler micro-climate for the worker. Qatar will see the first practical use of the helmets, although it is expected to have immense potential in other hot working environments worldwide.

Hilal Jeham Al Kuwari, SC chairman, technical delivery office, underscored Qatar’s efforts to improve its reputation in health and safety for workers.

“As we continue to place workers’ welfare as a top priority across all our construction sites, we are working hard to find and develop the most innovative and advanced solutions in our preparations for the 2022 FIFA World Cup in Qatar,” he said. ♦

“As we continue to place workers’ welfare as a top priority across all our construction sites, we are working hard to find the most innovative and advanced solutions.”

Hilal Jeham Al Kuwari, SC chairman

Addressing HSE challenges

The Qatar HSE & Fire Safety Conference 2017 will provide a timely forum to share ideas and expertise on HSE issues and challenges against the backdrop of Qatar’s preparations to host the 2022 FIFA World Cup.

Benefits of Attending

- Improve occupational health and safety for a sound working environment
- Establish roles the Qatar Labour Law plays on workers’ health and safety
- Identify reasons behind construction project delays
- Understand better the safety standards and fire safety codes
- Evaluate your fire safety and property protection goals
- Discover various aspects of fire detection, suppression and mitigation
- Highlight strenuous human behaviour in fire or emergency situations
- Gain product knowledge and information on latest developments on fire protection and life safety products

As Qatar prepares to host the 2022 FIFA World Cup, the country’s construction sector continues to gain momentum as infrastructure developments take shape.

With this comes an increased focus on ensuring the development and implementation of a well-planned health and safety strategy for all industries and associated stakeholders.

The inaugural Qatar HSE & Fire Safety Conference 2017, to take place from 17-18 May at the Marriott Marquis, City Center, Doha, provides a timely platform for knowledge sharing across a broad range of relevant topics, from evacuation strategies to safety leadership, fire testing and Qatar’s construction specifications.

Enjoying Qatari government support, it will include keynote presentations from the Qatar Ministry of Labor on Qatar law and current safety practices, and from Qatar Civil Defence on how to prepare for the implementation of Qatar’s new fire safety legislation. A mock court trial held in partnership with Clyde & Co will illustrate the workings of the justice system following a serious accident at work.

Organised by Health, Safety & Security Middle East, the event is sponsored by Thomas Bell-Wright International Consultants, Ansell and Evac+Chair, with the support of IOSH and IIRSM.

The line-up of expert speakers includes Ehab Saleh, senior safety

“Enjoying Qatari government support, it will include keynote presentations from the Qatar Ministry of Labor and Qatar Civil Defence.”

engineer and Yasser Berzan, safety specialist, Ashghal; Alan Crawford, HSE specialist, Supreme Committee for Delivery and Legacy 2022; Waleed Ghanem, head of Health & Safety, Arab Engineering Bureau; Ali Nadeem Alinadeem, head HSE, Qatar National Cement Company; Abhishek Chhabra, Business Development, Thomas Bell-Wright International Consultants; Gary Hicks, general manager, Evac+Chair International Ltd; Adel Lawson, HSE specialist, Oryx GTL; Samir Hasan, HSE manager, Qatar Fertiliser Co (QAFCO); Nicole Ivers, SH&E director AECOM Qatar and Khaled Ahmed Al-Hetmi, HSE head, Qatar Fuel.

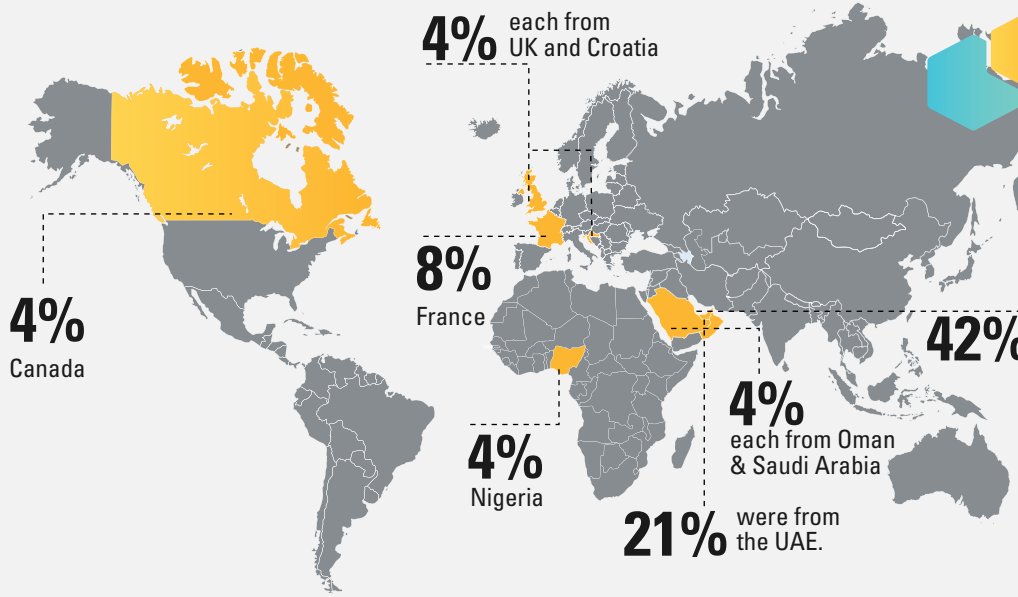
Join us in Doha to network with top HSE specialists and government officials, and learn about the latest ideas, developments and innovations to address current HSE challenges. ♦

For further information see the website at www.hse-forum.com/qatar.

QATAR HSE & FIRE SAFETY CONFERENCE 2017

17th & 18th May 2017 - Doha, Qatar

OCCUPATIONAL HEALTH & SAFETY SURVEY



75%

RESPONDENTS FACED CHALLENGES IN IMPLEMENTING HSE IN THE WORKPLACE:

IMPLEMENTATION
CHALLENGES

Their primary challenges are:

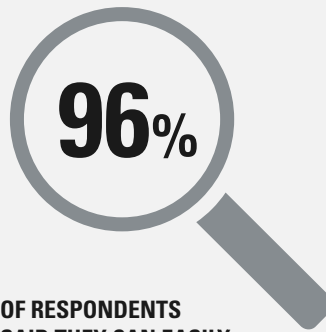
- Consistency across the company
- Persuading management to prioritise and lead the drive for HSE procedures internally and with contractors
- Newcomers' training
- Ensuring that Subcontractors have implemented and imposed the same standards on their onsite staff
- High turnovers in staff mean regular workshops should be implemented
- Continuous improvement in ensuring proper safety implementation is achieved
- Behavioural safety
- Language barrier



INTERESTINGLY, MOST PEOPLE SURVEYED HAVE EASY ACCESS TO COMPANY HSE INFORMATION THROUGH VARIOUS CHANNELS LIKE:

- Notice boards
- Posters around the workplace
- Regular emails
- Intranet sites and
- Regular workshops and training programmes

MOST COMPANIES HAVE A PROPERLY MANAGED AN ON-BOARDING PROCESS WHICH INCLUDES HSE TRAINING AS MANDATORY WITH ONGOING DRILLS AND PROGRAMMES.



OF RESPONDENTS SAID THEY CAN EASILY ACCESS THEIR COMPANY'S HSE POLICIES AND REGULATIONS

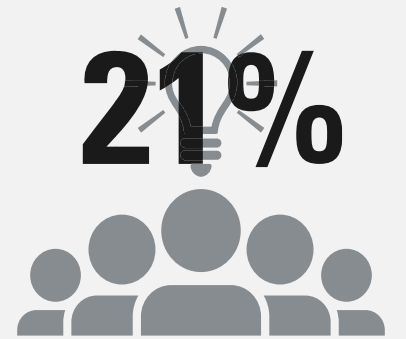


A POSITIVE 87%

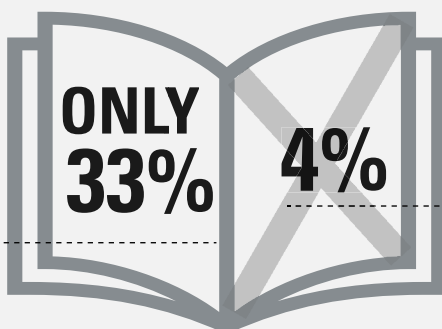
OF RESPONDENTS CONSIDER THEIR COMPANIES WELL-EQUIPPED TO IMPLEMENT SAFETY PROCEDURES ADEQUATELY.



OF PEOPLE THINK THAT REGULATIONS ARE NOT BEING MET BY THE INDUSTRY

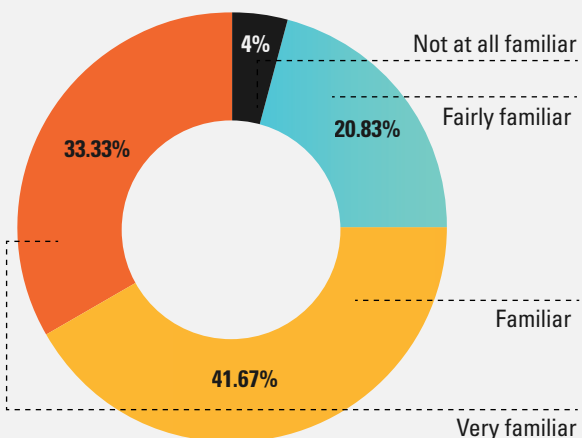


HAVE THEIR LEGAL TEAMS CONSTANTLY INVOLVED WITH THEIR HEALTH AND SAFETY DEPARTMENT



of respondents are very familiar with their country's laws surrounding workplace injury.

of respondents are not familiar at all.



Intersec set for Saudi Arabia launch

The trade fair will boost the kingdom's security market, which comprises a 42 per cent share in the Middle East.

“The dedicated trade fair brings Saudi customers and partners in direct contact with suppliers of the latest technologies and solutions available in the market.”

Ahmed Pauwels,
CEO Messe Frankfurt Middle East

ABOVE: The January 2017 Intersec in Dubai featured 1,304 exhibitors and welcomed 33,212 visitors from 128 countries, which made it the largest and most international Intersec of all times. (Photo: Messe Frankfurt)

Global players are looking forward to the inaugural edition of Saudi Arabia's foremost security, safety, and fire protection trade show in Jeddah, as exhibition space reaches full capacity ahead of opening in May 2017.

The inaugural edition of Intersec Saudi Arabia will feature more than 130 exhibitors from 25 countries when it opens from 2-4 May 2017 at the Jeddah Center for Forums & Events, as they collectively take aim at the Middle East's largest commercial security and fire safety market.

According to analysts Frost & Sullivan, Saudi Arabia's spend on commercial security, homeland security and fire safety was worth US\$5.4bn in 2016, comprising a 42 per cent share of the Middle East market that year.

The impressive opportunities are underlined by a full house of leading manufacturers and suppliers at Intersec Saudi Arabia, with the show's 22 official launch partners at the forefront of the 132 exhibitors eagerly anticipating the debut show.

The biggest names in the business signed on as soon as organisers Messe Frankfurt Middle East and Al-Harithy Company for Exhibitions (ACE Group) officially announced the show last year, which is also backed by the Saudi Ministry of Health and the Saudi Safety & Security Department.

Ahmed Pauwels, CEO Messe Frankfurt Middle East, said, “Saudi Arabia is the pre-eminent player in security and fire protection for the entire Middle East, and in Intersec Saudi Arabia, we're bringing this huge market to the doorsteps of the leading international players.

“The dedicated trade fair brings Saudi customers and partners in direct contact with suppliers of the latest technologies and solutions available in the market, so they can more easily and efficiently protect their critical assets and people.”

The annual three-day event also features country pavilions from India, China, and the Czech Republic, while the Safety Design in Buildings Conference on 2

May, and the Intersec Middle East Security Forum from 3-4 May will put a dual spotlight on security upgrades and construction safety as part of the Kingdom's Vision 2030.

UAE-based NAFFCO, a world-leading manufacturer of fire protection systems, firefighting equipment, and safety and security systems will be one of dozens of Fire & Rescue exhibitors eyeing a slice of the kingdom's market that spent US\$975mn on fire-related products and services in 2016.

Intersec Saudi Arabia is one of ten Messe Frankfurt-organised trade fairs and events dedicated to the worldwide safety and security sector, and the second in the Middle East after the Group's flagship show, Intersec in Dubai.

It will present a comprehensive overview of the entire safety, security and fire protection industries through six product sections of Commercial Security, Information Security, Perimeter & Physical Security, Homeland Security & Policing, Fire & Rescue and Safety & Health. ♦

CREW TRANSFER? FROG-XT IS YOUR BEST OPTION



Addressing safety and security challenges in Oman

OFSEC is Oman's exclusive fire, safety and security expo and is designed to connect suppliers, distributors and manufacturers to government and private sector decision-makers.

The expo is aligned with the demand and supply of the market across the board of industries to share best practices, tackle challenges, and explore breakthrough methods for the integration of safety and security technologies.

Entering into its third year, OFSEC 2017 will bring together local and international exhibitors who will showcase their latest solutions and technologies, cutting edge innovations, cost-effective products and services to meet the requirements of governments, businesses, industrial and commercial entities, aviation, construction, infrastructure, transportation, manufacturing, oil and gas and utilities sectors.

Dynamic economic and infrastructure development in Oman and the region has made the Middle East the most vibrant safety and security market in the world, with a growth rate of more than 10 per cent annually since 2012, according to recent research by G4S. There is a diverse demand for fire, safety and security equipment, ranging from the smallest of businesses to large corporates and home-users.

OFSEC is designed to meet the needs of the local, regional and international markets by linking practitioners, suppliers, distributors and manufacturers from the fire, safety and security industry, with key decision makers from the government and private sectors.



The three-day exhibition will attract participation from a large number of exhibitors and representation from over 30 countries, with a slew of product and service launches, to the trade visitors and potential buyers from the region and beyond.

OFSEC has collaborated with government bodies, leading industry associations, research partners and specialists to establish the exhibition that caters to the entire fire, safety and security sectors, making it an important convergence point. The expo is aligned with the demand and supply of the market across the board of industries to share best practices, tackle challenges, and explore breakthrough methods for the integration of safety and security technologies.

The expo is being endorsed by Firestop Contractors International Association (FCIA), USA; International Institute of Risk and Safety Management (IIRSM), UK; Institution of Occupational Safety and Health (IOSH), UK; International Water Mist Association (IWMA), Germany; Oil and Gas Safety Council, UK; German Fire Protection Association, GFPA; and Asian Professional Security Association, APSA.

The exhibition will lay foundation and be the gateway to the current and future market trends in the fire, safety and security sectors, for industry professionals to communicate, share ideas and identify solutions. OFSEC will strengthen local and international business engagement and encourage investment. ♦

ABOVE: OFSEC 2016 took place from 5-7 September.

Uniting the health and safety industry

The annual event in the UK will showcase the latest health and safety products and services on the market.

“Safety & Health Expo has all the products you need in health and safety - if you were setting up you would be able to source it all at show. Plus, it's great for networking.”

**Senior H&S advisor,
Thames Water Utilities, speaking
about the 2016 edition**

Safety & Health Expo, which will be held from 20-22 June 2017 at ExCel London, will provide a forum for key health and safety associations, manufacturers, distributors, consultants and industry leaders to come together, giving access to unrivalled expertise and networking under one roof. Safety & Health Expo is co-located with IFSEC International, Facilities Show, FIREX International and Service Management Expo, catering for those also responsible for fire protection, security and facilities management of their premises.

This year's show will welcome world-renowned physicist, Professor Brian Cox OBE; Dame Kelly Holmes, double Olympic gold medallist; and Simon Weston CBE, highly respected Falklands War veteran, as the 2017 keynote speakers.

According to the organisers, Safety & Health Expo will provide access to exclusive deals on the latest head protection equipment, training solutions, footwear, eLearning tools, behavioural safety and occupational health solutions. Visitors can also gain access to over 1,600 exhibitors offering exclusive deals on over 20,000 products across safety and health, facilities, service management,



fire and security including workwear, evacuation systems, head protection, behavioural safety services and more.

The Professional Clothing Show will partner with Safety & Health Expo for the second year running, bringing visitors more corporate wear, workwear and personal protective equipment than ever before.

The SHE Live! fashion show will see catwalk models strutting their stuff in the latest corporate wear, PPE and workwear on stage.

The Professional Clothing Awards will reward exceptional workwear, corporate clothing and PPE from around the world.

Also taking place at the Safety & Health Expo will be the RoSPA Health & Safety Awards and the Rising Star Awards, which will celebrate the achievement of young people and those new to the profession.

FIREX International will give fire and security professionals

access to the latest technology from suppliers across the world, plus the cutting-edge solutions and essential knowledge needed to ensure life safety. Highlights will include the 4th International Tall Buildings Fire Safety Conference, the ASFP Passive Fire Protection Zone and live installation demonstrations from Exova Warringtonfire and Exova BM TRADA.

IFSEC International will cover every aspect of security, from access control and video surveillance to smart buildings, cyber, border control and much more. New for 2017, the Borders & Infrastructure Expo will focus directly on solutions for large scale security issues. 2017 will also see the addition of tech for smart commercial buildings and connected security solutions, in the new dedicated Smart Zone. ✦

*For further information see
www.safety-health-expo.co.uk.*

A demonstration at the 2016 show



Inching closer to its goal?

As the country moves closer to hosting the 2022 FIFA World Cup Qatar, the 14th edition of Project Qatar will demonstrate technologies to fast track projects for the event as well as steps to ensure safety standards in projects.

Qatar is likely to undergo a major construction boom with a substantial number of infrastructure, industrial and private building projects being undertaken for the 2022 FIFA World Cup Qatar.

ABOVE: Project Qatar 2016 hosted 663 exhibitors representing more than 1,050 companies and brands displaying their products to 37,683 visitors, within 17 national pavilions from 38 countries. (Photo: Project Qatar)

As Qatar prepares itself for the 2022 FIFA World Cup Qatar and in order to meet its Qatar National Vision (QNV) 2030, the country is investing heavily in developing infrastructure and construction projects, with more than US\$220bn to be invested in new roads, stadiums, facilities, and numerous major projects including hotels, leisure, and recreation in the planning or construction phase.

According to Ventures Onsite reports, Qatar is the fastest growing construction market in the GCC. The country's 2017 budget has been received favourably by construction companies and experts alike and hence the construction sector is estimated to peak in H1 2017. Construction would account for 45 per cent of investment between 2015 and 2018. The budget has also paved the way for an increase in construction activities on various projects, which will lead to higher allocations for major projects during the coming fiscal years.

The investment plan of US\$13bn for the current year will impact positively on the construction sector. Qatar is likely to undergo a major construction boom with a substantial number of infrastructure, industrial and private building projects being undertaken, including extremely large projects such as the underground railway and stadiums to be built for the 2022 FIFA World Cup Qatar. According to Qatar's Ministry of Development Planning and Statistics, construction will continue to expand through to 2018, though its pace of growth will ebb as existing projects.

However, industry growth is expected to slow over the forecast period (2017–2021). Though volatile oil prices continue to offer a challenge, ongoing government initiatives to promote economic growth through flagship programmes such as QNV 2030, Qatar Rail Development Program (QRDP) and National Tourism Sector Strategy 2030 are expected to support the industry's expansion

over the forecast period.

Project Qatar 2017, the 14th International Construction Technology & Building Materials Exhibition, will be taking place at the Doha Exhibition and Convention Center (DECC), from 8-11 May and will attract key buyers and industry leaders looking for the most up-to-date technology and state-of-the-art equipment available on the market. According to organiser IFP Qatar, Project Qatar is now established as Qatar's most important exhibition for highlighting the latest products and services needed for the country's fast growing construction sector and has become a destination of choice for regional and international industry professionals.

The show will provide a unique and dynamic platform for buyers and suppliers to make contacts and drive future developments in Qatar's multi-billion construction sector and the exhibitors would benefit from massive exposure to premier regional agents, dealers, buyers and distributors. ♦



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- FIRE COMPLIANCE

Fire Testing and Certification for Civil Defence Product Approval



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Taking half mask respiratory protection to the next level

RESPIRATORY PROTECTION

Scott Safety, a world leader in the design and manufacture of respirators and personal protective equipment, has introduced the innovative new AVIVA half mask. Its low-profile head harness offers greater stability and compatibility with safety helmets and eye protection, ensuring worker wellbeing is a priority.

The cutting-edge half mask, which is silicone-free but designed with silicone-like comfort, features novel design elements. AVIVA offers a reflex seal which allows the wearer added movement and flexibility, a positive fit check button that is built into the device guaranteeing a secure fit. Enhanced voice intelligibility enables the wearer to be clearly heard by those around, ensuring clear lines of



The AVEVA half mask in use

communication. The AVIVA half mask is available for use with a wide range of filters, permitting its use in a variety of applications and industrial situations such as asbestos removal, manufacturing, welding and pharmaceuticals.

Last year, around 33,000 workers suffered breathing or lung problems thought to be caused or made worse by their working environments, according to UK government statistics (www.hse.gov.uk/statistics). One

of the industry's biggest issues is badly fitted, uncomfortable equipment, discouraging workers to use their kit correctly. Scott Safety is helping to eradicate this problem with the introduction of this easy-to-use mask that provides complete respiratory protection, low breathing resistance and increased comfort and fit. The AVIVA half mask is available in small, medium and large sizes and a variety of packaging types including ready-pak options for specific applications, some of which have the advantage of permitting the user to regularly store the half mask, keeping it clean and correctly formed for optimum fit.

AVIVA is now available from Scott Safety approved distributors. For more information please visit www.scottsafety.com/emea

Axis product updates focus on detail and efficiency

VIDEO SURVEILLANCE

Axis Communications has introduced the AXIS FA Series with modular cameras which enables cost-effective and highly discreet indoor surveillance of four closely situated areas using just one camera system. The modular AXIS FA Series consists of separately sold units that comprise AXIS FA54 Main Unit, AXIS FA1105 Sensor Unit with a standard lens, AXIS FA1125 Sensor Unit with a pinhole lens and AXIS FA4115 Dome Sensor Unit with a varifocal lens.

It captures video with Forensic WDR (wide dynamic range) that is optimised for low light and motion. AXIS FA54 also has the capacity to support advanced video analytics, and has an HDMI output for connection to a surveillance or public view monitor (PVM), making the system ideal for retail



The AXIS FA series

applications. The sensor units are small enough to be built into surfaces, structures or devices, and can be installed at eye level such as at building entrances without drawing attention.

Axis has also introduced the indoor AXIS P1367 and outdoor AXIS P1367-E and AXIS P1368-E network cameras, which are additions to the AXIS P13 fixed-box series,

ideal for city surveillance, transportation and retail environments. With improved light sensitivity, better image quality and higher frame rate, these cameras can provide up to 4K resolution images in large open areas with challenging light conditions.

Andres Vigren, global product manager for fixed box cameras at Axis Communications said, "For the first time we have developed an outdoor-ready CS-mount camera from scratch. This has enabled a highly flexible camera system that can use zoom lenses or even Axis Corridor Format when customers want to view a vertical image and not waste precious screen real estate and bandwidth."

AXIS FA Series will be available through Axis' distribution channels in May 2017, while the new additions to AXIS P13 Series will be available in Q2 2017.

TANKCO to showcase LUF firefighting systems in Abu Dhabi

FIRE FIGHTING

Tank International Petroleum Equipment & Instrumentation Co (TANKCO) will be holding a demonstration of LUF firefighting systems at the Gulf Technical and Safety Training Centre (GTSC) Abu Dhabi in late May, to which the company's clients and end-users from the region will be invited to witness the unique capability of its machines in live fire scenarios.

LUF machines' compactness, tremendous power, flexibility, mobility and safety make them a game changer in big fire scenarios. No other machines can match their features and capabilities, according to the company.

The LUF 60 and 120 wireless remotely-operated firefighting support machines can control and extinguish a fire from 300 metres away wirelessly, with a discharging capacity of



The LUF 120 fire fighting machine in action

3,000 litres per minute for LUF 60, and 12,000 litres per minute for LUF 120.

The increasing focus on fire safety throughout the MENA region and the introduction of new fire regulations is creating big opportunities for TANKCO to strengthen its market presence. The company has been actively promoting and marketing its systems and services throughout the region over the

past year, carrying out live product demonstrations for a number of major companies and organisations.

"Teaming up with the GTSC and with their training facilities all over the GCC gives us access to all countries in the region for our demonstration requirements," said Matthew Kurian, director, sales & marketing at TANKCO.

TANKCO would be interested in hearing from interested companies or individuals who would like to attend this event. The company is looking to expand its business by appointing sales partners in each of its territories; a strategic opportunity is available for interested companies or institutions who would like to represent LUF systems in the MENA region.

For further information please contact mathew.kurian@ivacis.com.

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Separating people from hazards



SAFETY SYSTEMS

Kee Safety is a leading global supplier of safety barrier components, bespoke systems for roof edge protection and fall prevention and safe access solutions, all designed to separate people from hazards.

Kee Safety opened its Middle East office in 2007, and supplies the water, power, oil and gas, commercial and government sectors. Kee Safety LLC is able to provide full access to its complete product range and design services, combined with short delivery lead times.

The company's fall protection product range includes

KeeGuard® roof edge protection, a modular free standing rooftop guardrail system that does not penetrate the roof surface and can be used on flat roofs up to 10° slope. KeeGuard® systems are compliant with OSHA, EN 14122-3 and EN 13374 Class A.

While KeeLine® is a horizontal lifeline system designed for use on roofs where guardrails are not suitable or when a virtually invisible solution is required. It offers uninterrupted access for up to three users when used as a fall arrest system. KeeLine® complies with EN 795:2012.

Kee Safety barrier systems offer a cost-effective alternative to

traditional welded handrails. Guardrails are quick and easy to design and install and very cost effective due to the modularity of their parts. Kee Safety supplies Kee Klamp® tubular fittings made from malleable iron and Kee Lite® aluminium fittings. Both types can be used in internal and external applications. Kee Klamp® and Kee Lite® fittings have been tested and approved by TÜV for strength, manufacturing quality and consistency.

Kee Gate® safety gates are spring loaded so can automatically close behind the user. They are compliant with EN 13374 Class A and EN 14122 Part 3 & Part 4, and OSHA.

With the aim of eliminating hazards, preventing falls and reducing the consequences of a fall, the company supports its customers with expert advice and services to support its extensive product range, and to ensure compliance with all major standards and statutory requirements.

Please visit: www.keesafety.ae

New breakaway coupling

OFFSHORE SAFETY

KLAW has launched the Marine2 breakaway coupling, which the company says is 32 per cent shorter and 25 per cent lighter than alternative marine breakaway couplings on the market, and is designed to reduce stress on hoses used on offshore hose reel applications.

The coupling provides a safe parting point within the hose transfer system in ship-to-ship, ship-to-shore and vessel to offshore platform transfers. It is designed to activate in an emergency such as vessel drift in stormy conditions or pressure surge. When activated, the valves within the coupling shut both upstream and downstream flow within the hose transfer system and allow immediate separation of the line. It therefore minimises risk of spill and reduces the risk of damage to assets, injury to personnel, extended downtime and contamination of the environment.

The KLAW Marine2 comes in standard nominal bore sizes of 2", 3", 4", 5" and 6".

Honeywell introduces new Personal Tracker

PERSONAL SAFETY

Honeywell has announced a new satellite-based connected solution to help governments, companies and other organisations monitor the location and safety of workers in remote locations.

Honeywell's Personal Tracker utilises Iridium's low-earth orbit satellite network, the only satellite constellation that provides pole-to-pole coverage, which is necessary for effective remote asset and personnel tracking. The mobile device allows companies to

communicate with their workers or track assets anywhere in the world – across oceans, airways and even polar regions.

Taylor Smith, president of Honeywell's Workflow Solutions business said, "This offers remote workers peace of mind and provides their employers with a valuable communication and search-and-rescue tool for emergency situations."

Emergency services, maritime, military and oil and gas workers can share their location with GPS coordinates and send text messages

using the enterprise-grade, ultra-rugged device, which is certified to function in hazardous environments.

The Personal Tracker can be used as a stand-alone, two-way communications device or can be clipped to a backpack to serve as a tracking beacon. It can also be paired with an iPhone so that users can access a Honeywell mobile app that offers features such as interactive SOS, messaging, push notifications, trip information and situational awareness.



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Personal Protective Equipment Buyers' Guide

2017

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

Body Armour

Nal Hon Industrial Company Limited
Teijin Aramid GmbH

Breathing Equipment/ Protection/Respirators

ARASCA Medical Equipment Trading LLC
Bullard Asia Pacific Pte. Ltd.
DELTA PLUS MIDDLE EAST
Globus EMEA FZE
Honeywell Industrial Safety
KARAM SAFETY DMCC
Schefferville Trading LLC
Scott Safety

Chemical Protection Suits

Globus EMEA FZE

Ear Protection

ARASCA Medical Equipment Trading LLC
KARAM SAFETY DMCC
Schefferville Trading LLC
Scott Safety

Face Protectors

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

Fall Protection

KARAM SAFETY DMCC
Kee Safety LLC
Midas Safety Products Trading LLC

Foot Protection/Safety Footwear

Ballyclare Ltd.
DELTA PLUS MIDDLE EAST
Honeywell Industrial Safety
KARAM SAFETY DMCC
Midas Safety Products Trading LLC
Saudi Leather Industries Factory Co. Ltd.
Schefferville Trading LLC
Williamson-Dickie Middle East FZE
(Dickies)

Hand & Arm Protection

Globus EMEA FZE
Safety INXS
Teijin Aramid GmbH

Head Protection/Helmets

ARASCA Medical Equipment Trading LLC
Bullard Asia Pacific Pte. Ltd.
KARAM SAFETY DMCC
Midas Safety Products Trading LLC
Nightstick by Bayco Products Inc.
Pacific Helmets (NZ) Ltd.
Safety INXS
Scott Safety
SINGING ROCK S.r.o.
Teijin Aramid GmbH

Heat & Fire Resistant Clothes & Garments

ARASCA Medical Equipment Trading LLC
Ballyclare Ltd.
Honeywell Industrial Safety
KERMEL
Nightstick by Bayco Products Inc.
Parasnath TechGarments Pvt. Ltd.
Teijin Aramid GmbH
Williamson-Dickie Middle East FZE
(Dickies)

Heat Stress Safety

ARASCA Medical Equipment Trading LLC
Teijin Aramid GmbH

Hydration drink

ARASCA Medical Equipment Trading LLC

Leg Protection

Teijin Aramid GmbH

Protective Clothing

ARASCA Medical Equipment Trading LLC
Ballyclare Ltd.
DELTA PLUS MIDDLE EAST
KERMEL
Midas Safety Products Trading LLC
Parasnath TechGarments Pvt. Ltd.
Teijin Aramid GmbH

Williamson-Dickie Middle East FZE
(Dickies)

Protective Clothing for Fire Brigades

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

Protective Eyewear/Safety Glasses

ARASCA Medical Equipment Trading LLC
DELTA PLUS MIDDLE EAST
Globus EMEA FZE
Honeywell Industrial Safety
KARAM SAFETY DMCC
Safety INXS
Schefferville Trading LLC
Scott Safety
Williamson-Dickie Middle East FZE
(Dickies)

Protective Gloves

Ballyclare Ltd.
DELTA PLUS MIDDLE EAST
Globus EMEA FZE
KERMEL
Midas Safety Products Trading LLC
Safety INXS
Teijin Aramid GmbH
Williamson-Dickie Middle East FZE
(Dickies)

Reflective Materials

ARASCA Medical Equipment Trading LLC
Williamson-Dickie Middle East FZE
(Dickies)

Uniforms

Nightstick by Bayco Products Inc.
Parasnath TechGarments Pvt. Ltd.
Williamson-Dickie Middle East FZE
(Dickies)

Suppliers

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ARASCA has become the bridge between health and safety sector and the world of innovations, making sure that the two always meet when it comes to our product and services. Healthy and Safety ranging from the paramedic professionals at the ambulance services or the rescue departments, to the nurses at schools or universities and to the safety officers in business enterprises; our clients are always served with the highest priority to ensure that ARASCA is recognized not only locally as innovative products and service provider; but also at an international levels, representing well-known brands that follow this very concept.

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Founded in 1898, E.D. Bullard Company is a leading manufacturer and one of the most trusted providers of high-quality personal protective equipment and systems in the world. Our sales teams provide a compelling portfolio of market-specific solutions to address the global needs of fire services, law enforcement, military, industrial, manufacturing and healthcare markets. Bullard is the recognized global leader in mission-critical safety. Product lines include thermal imagers, hard hats, firefighter and rescue helmets, supplied air respirators, powered air-purifying respirators, and air quality equipment.

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For more than 35 years, Delta Plus has developed, standardized, manufactured, and distributed a total range of Personal Protective Equipment. Its Full PPE range protects workers from head to toe in the workplace and meets the needs of each user.

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KARAM SAFETY DMCC



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Kee Safety, with its headquarters in the UK, is a global supplier of handrail and work at height safety equipment and has been trading in the Middle East since the 1980's. We can offer our customers also a full design and installation service, undertake surveys and produce CAD drawings for each project.

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Saudi Arabia - Midas Trading Establishment

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Pyramex

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Saudi Leather Industries Factory Co. Ltd.

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Web: www.slicshoes.com
E-mail: anas@slicshoes.com

SLIC is a Saudi company leading supplier of safety & work footwear in Saudi Arabia, Gulf, Middle East & Africa. Footwear are comfortable & tough. Footwear produced under latest technology featured with Quality, Flexibility & Performance. Meets EN & ASTM standards. Composite toe & ladies footwear are available, apart from guaranteed against manufacturing defects for 6 months.

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Oman - Altes
Qatar - Mannai Trading Co.
United Arab Emirates - Al Sad Co.
United Arab Emirates - Saleem Jacobson
Yemen - Aden Refinery Co.

Schefferville Trading LLC

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Fax: +971 6 5757890
Web: www.eyevexsafety.com
E-mail: scheffer@emirates.net.ae

We are an organization that believes in sharing our expertise and providing right personal safety products and industrial equipment at the right price with integrity and honesty. Schefferville's range of products include the biggest names in the PPE field, like TAG-IT, FireWarrior, Hunk,

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Saudi Arabia - Khalifa A. Al Gosaibi Trading LLC

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Scott Safety



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Tel: +971 2 4075000
Web: www.scottsafety.com/emea
E-mail: scott.sales.emirates@
tycoint.com

Scott Safety is a recognised world leader in the design, manufacture and supply of innovative respiratory and personal protective equipment and safety devices for fire and rescue services, industrial workers, police, military and civil defence organizations around the world. With thirteen manufacturing locations, Scott Safety manufactures products that protect thousands of individuals each day from toughest conditions and environmental hazards.

SINGING ROCK S.r.o.

Ponikla 317, Ponikla, 51401
Czech Republic
Tel: +420 481 585007
Fax: +420 481 540040
Web: www.singingrock.com
E-mail: info@singingrock.com

SINGING ROCK is one of the world leaders on the market of climbing equipment and professional protective equipment for work at heights, military and rescue. All our

products are developed and produced in Czech republic and they are certified and fully comply with appropriate EU directives and standards.

Agents:

United Arab Emirates - Global Climbing Trading LLC

ST QUADRAT Fall Protection S.A.

45, rue Fuert, Beyren, L-5410
Luxembourg
Tel: +352 26 747265
Fax: +352 26 747266
Web: www.lux-top-absturzversicherungen.de
E-mail: info@st-quadrat.lu

Teijin Aramid GmbH



Kasinostr. 19-21, Wuppertal
42103, Germany
Tel: +49 202 324422
Fax: +49 202 322351
Web: www.teijinaramid.com
E-mail: personalprotection@
teijinaramid.com

Teijin has a long history of providing technology driven fiber and fabric solutions for high performance personal protective apparel. From firefighting garments and industrial workwear to flame and cut resistant gloves, Twaron®, Technora®, Teijinconex® and Teijinconex® neo fibers are among the most trusted names in personal protection.

Total Safety LLC

PO Box 29056, Dubai
United Arab Emirates
Tel: +971 4 2678829
Fax: +971 4 2678839
Web: www.totalsafety.com
E-mail: tsdubai@totalsafety.com

Towa Corporation

227, Tsubuku-Honmachi
Kurume, Fukuoka, 8300047, Japan
Tel: +81 942 32 8863
Fax: +81 942 31 3219
Web: www.towagloves.com

VARMEX AS

Menstrupvaenge 10, Naestved
Denmark, 4700, Denmark
Tel: +45 55 446644
Web: www.d-s.dk
E-mail: info@d-s.dk

Williamson-Dickie Middle East FZE (Dickies)

PO Box 261742
Office 1101 Jafza View Tower 18
Jebel Ali Free Zone, Dubai
United Arab Emirates
Tel: +971 4 8878223
Web: www.dickies.com
E-mail: info@dickie-me.com

Williamson-Dickie Mfg. Co. is the world's leading provider of authentic work apparel, specializing in

innovative performance work wear since 1922. The company manufactures and distributes a wide range of corporate & industrial workwear and footwear. This includes specialized products such as Flame Retardant Workwear, High Visibility Vests and "Fit for Purpose" customized programs.

Agents:

United Arab Emirates - Al Jazeera Safety Supplies
United Arab Emirates - Mostafawi Group

Agents & Subsidiaries

Bahrain

Bahrain Workshop

Jordan

Bashiti Hardware

Kuwait

Al Fal International Trading LLC

Egalia

S B Co.

Oman

Al Dastoor Contracting LLC

Muttrah

Altes

Muscat Safety & Security

Products

PO Box 1789, 114
Tel: +968 24 817700/818900
Fax: +968 24 818939
Web: www.midas-safety.com
E-mail:
oman.sales@midassafety.com

Qatar

Al Majdal Trading Co. LLC

Tel: +974 7 7550062

Mannai Trading Co

Saudi Arabia

Khalifa A. Al Gosaibi Trading LLC

Dammam

Midas Trading Establishment

PO Box 31952, Al Khobar
Tel: +966 13 8146604/
8146297
Fax: +966 13 8100146
Web: www.midas-safety.com
E-mail: saudi.sales@
midassafety.com

United Arab Emirates

Al Jazeera Safety Supplies

E11, Abu Dhabi
Tel: +971 50 6161257
Web: www.jssc.ae
E-mail: krishnarao@jssc.ae

Al Sad Co.

Dubai

Global Climbing Trading LLC

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Tel: +971 4 8829361
Fax: +971 4 8829362

Email: uaesales@keesafety.com

Kee Safety LLC

PO Box 18448
Dubai Investment Park
Dubai
Tel: +971 4 8859066
Fax: +971 4 8859065
Web: www.keesafety.ae

Saleem Jacobson

Dubai

Yemen

Aden Refinery Co.

الحوادث الجسيمة واتخاذ الإجراءات التصحيحية قبل فوات الأوان.

ما الموارد المتاحة؟

هناك خمس ممارسات أو معايير توفر حالياً الإرشاد لمؤشرات أداء سلامة العمليات. HSG254 - تطوير مؤشرات سلامة العمليات، دليل خطوة بخطوة موجه للصناعات الكيماوية والتي تنطوي على خطورة عالية، الصحة والسلامة والبيئة، 2006.

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- مؤشرات أداء سلامة العمليات لصناعات التكرير والبتروكيماويات، معهد البترول الأمريكي (API)، الممارسة الموصى بها 754، النسخة الأولى، أبريل/ نيسان 2010.

- سلامة العمليات - الممارسة الموصى بها لمؤشرات الأداء الرئيسية، الاتحاد الدولي لمنتجي النفط والغاز، تقرير رقم 456، نوفمبر/تشرين الثاني 2011.
- توجيهات حول مؤشرات أداء سلامة العمليات، المجلس الأوروبي للصناعات الكيماوية (CEFIC)، النسخة الثانية، مايو/أيار 2011.

تتضمن هذه الممارسات نهجين مميزين، وهما النهج القائم على الحواجز (محدد بواسطة HSG254) والنهج القائم على المستويات (محدد بواسطة معيار معهد البترول الأمريكي ومركز سلامة العمليات الكيماوية ويتبناه الاتحاد الدولي لمنتجي النفط والغاز وتوجيه المجلس الأوروبي للصناعات الكيماوية).

النهج القائم على المستويات في مقابل ذلك القائم على الحواجز

عند اتباع النهج القائم على الحواجز، يتم أولاً تحديد المخاطر الكبرى التي تهدد سلامة العمليات، وبلي ذلك دراسة لأسبابها وحواجز السلامة التي تحول دون وقوعها (وهي تُعرف أيضاً باسم أنظمة التحكم في المخاطر في HSG254). يتم فيما بعد تحديد المؤشرات السابقة واللاحقة بناء على هذه الحواجز. ونتيجة هذا الإجراء يكون لكل حاجز مؤشر (مؤشرات) سابق ولاحق لقياس مدى فاعليته في إدارة خطر (مخاطر) سلامة العمليات المحدد. تعطي المؤشرات السابقة تحذيراً مبكراً بتدهور الحاجز على نحو خطر، مثل احتمالية وقوع حادث في المستقبل نتيجة فشل الحاجز. أما المؤشرات اللاحقة فتشير إلى الأداء السابق للحاجز في تفادي الحوادث المرتبطة بسلامة العمليات.

الحصول على المؤشرات اللاحقة

تحدد النهج القائم على الحواجز ثلاث خطوات للحصول على المؤشرات

اللاحقة الصحيحة: وهي تحديد حواجز العملية، واستخدام هذه الحواجز، وتحديد «نتائج السلامة المرجوة»، وتحديد المؤشرات اللاحقة بناء على ما إذا كان قد تم تحقيق نتائج السلامة المرجوة من عدمه. على سبيل المثال، ربما تكون إحدى عمليات تخزين ونقل المواد السائبة عرضةً لفرط الامتلاء والذي قد يتسبب في فقدان الحاويات وربما يؤدي إلى نشوب حريق كبير. وقد يتمثل أحد حواجز السلامة المحددة في كفاءة الموظفين بسبب الطبيعة اليدوية لهذه العملية.

الحصول على المؤشرات السابقة

يتضمن النهج القائم على الحواجز خطوتين: تحديد «الأجزاء الحرجة» لكل حاجز سلامة، ثم وضع المؤشرات السابقة بناء على ما إذا كان الحاجز يحقق الأداء المنوط به، وضبط مستوى التفاوت (أو مستوى تحفيز الإجراء) لكل مؤشر سابق. على سبيل المثال، في أي مرحلة من مراحل التدهور يتم اتخاذ الإجراء اللازم لتصحيح المشكلة؟

إحداث التوازن

يتزايد الطلب على تطبيق مؤشرات أداء سلامة العمليات بشكل قوي، وتدعمها الجهات التنظيمية. قد يكون النهج القائم على الحواجز لتطوير وتحديد مؤشرات أداء سلامة العمليات مرناً وشاملاً، وينتج عنه مجموعة أفضل من المؤشرات على مستوى المنشأة لأنه يؤدي إلى وضع مؤشرات حسب الطلب. ويتسم النهج القائم على المستويات بأنه عام وأقل مرونة، بينما يمكن أن يقود إلى مجموعة من المؤشرات التي يمكن وضع المعايير بناء عليها.

وعلى الرغم من فائدة المؤشرات الموضوعية حسب الطلب على مستوى المنشأة، ربما يصعب استخدامها في وضع المعايير على مستوى المؤسسة، وذلك نظراً لعدم قابلية تطبيق هذا. وعلى الجانب الآخر، تعتبر المؤشرات العامة التي يمكن وضع المعايير بناء عليها أكثر فائدة على مستوى المؤسسة، بينما هي أقل فائدةً على مستوى المنشأة.

مع أخذ كل هذا في الاعتبار، يجب تطبيق منهجية متوازنة بين هذين النهجين على مستوى المنظمة. حيث يساعد ذلك المنظمات على الاستفادة من برامج مؤشرات أداء سلامة العمليات الفعالة على مستوى المنشأة، مع توفير معلومات مفيدة أيضاً لتحديد المعايير على مستوى المؤسسة.



برنامج مؤشرات أداء العمليات يعطي إشارات تنبؤية ويطلق تحذيرات مبكرة

سلامة العمليات .. كيف يمكن قياسها؟

عادة ما يكون أغلب الناس على دراية بمؤشرات أداء العمل؛ مثل مؤشرات الأداء الرئيسية لأجل قياس الربح، وهذا المصطلح يستخدم على نطاق واسع. غير أن هذا الاستخدام قد اتسع مؤخراً ليشمل سلامة العمليات (في شكل مؤشرات أداء سلامة العمليات التي تتخذ اسماً مشابهاً)، وقد أعلنت بعض الشركات عن تحقيق نتائج إيجابية للغاية في هذا الصدد.

فقط عبر قياس السلامة المهنية، والذي كان متمثلاً في عدد مرات الانزلاق والتعثر والإجهاد والالتواء. وقد أعطى هذا انطباعاً زائفاً عن أداء السلامة العام للشركة، وثبت أنه عامل مساهم في الكارثة. علماً بأنه يمكن استخدام أحد برامج مؤشرات أداء سلامة العمليات لإنشاء إشارات تنبؤية وإطلاق تحذيرات مبكرة لتدهور الأنظمة الحرجة على نحو خطير. ويتيح ذلك للمنظمة توقع احتمالية وقوع

لماذا يجب استخدام مؤشرات أداء سلامة العمليات؟

عقب وقوع حوادث كبرى، على غرار انفجار مصفاة النفط في مدينة تكساس الأمريكية في مارس/آذار 2005، والذي أودى بحياة 15 عاملاً وأدى إلى إصابة 170 آخرين، تعالت الأصوات لتطبيق مؤشرات الأداء الرئيسية الخاصة بسلامة العمليات. وعندما وقعت هذه الكارثة بالتحديد، خضع أداء السلامة للتقييم

وتحديثات التكوين عبر الأثير. يدعم الجهاز الجوال برنامج ViewPoint من هانيويل، وهو منصة قائمة على الويب تتيح للمنظمات القدرة على الرؤية في وقت آني لتعقب ومراقبة الأصول عالية القيمة؛ مثل أساطيل المركبات، وحاويات الشحنات. وتتضمن منصة ViewPoint العديد من الميزات المتقدمة التي يستفيد منها المستخدمون، مثل الاحتفاظ بتاريخ التعقب لمدة ٩٠ يوماً، والسياس الجغرافي، وجدولة التقارير، وإدارة وإرسال التنبيهات.

بتطبيق الأجهزة الجواله من هانيويل، والذي يعرض ميزات مثل نداءات الاستغاثة التفاعلية والرسائل والإخطار بالأحداث الجديدة، ومعلومات الرحلة، والوعي بالمواقف. ويُستخدم برنامج التعقب الشخصي «Personal Tracker» حصرياً مع شبكة Iridium*. وبفضل إمكانات الاتصال ثنائي الاتجاه، التي توفرها هذه الشبكة حتى مع استخدامها كمرشد مستقل للتعقب والتنبيه، يكون بوسع برنامج التعقب الشخصي تلقي طلبات تحديد الموقع الحالي

النفط والغاز، مشاركة الموقع عبر إحدائيات نظام تحديد المواقع العالمي «جي بي إس» وإرسال الرسائل النصية بواسطة أجهزة محمية وشديدة التحمل للظروف القاسية من ذات النوعية الخاصة بالشركات، ومؤهلة للعمل في البيئات الخطرة. كما يمكن استخدامها كأجهزة مستقلة، أو أجهزة اتصالات ثنائية الاتجاه، أو يمكن الاحتفاظ بها في حقيبة الظهر لتكون بمثابة مرشد للتعقب. ويمكن أيضاً إقرانها بجهاز أي فون حتى يتسنى للمستخدمين الاتصال

بدء العد التنازلي لمعرض إنترسك ٢٠١٧ في السعودية



أثبت معرض إنترسك أنه على مدى 19 عاما منصة الأعمال الأولى في منطقة الشرق الأوسط وشمال أفريقيا

من مايو/أيار، ومنتدى إنترسك الشرق الأوسط للأمن في يومي 3-4 مايو/أيار، الضوء على التحديات الأمنية، وسلامة الإنشاءات في إطار رؤية المملكة 2030. ويعد معرض إنترسك السعودية واحداً من عشرة معارض وفعاليات تجارية مخصصة لقطاع الأمن والسلامة في العالم، تنظمها مجموعة ميسي فرانكفورت، والثاني في الشرق الأوسط بعد معرض إنترسك دبي، الذي يعد الحدث الأبرز للمجموعة.

تتوجه أنظار الشركات العالمية صوب سوق الأمن التجاري، والأمن الوطني، والسلامة من الحرائق، التي بلغ حجم الإنفاق عليها 5,4 مليار دولار أمريكي مع اقتراب معرض «إنترسك السعودية». يشارك أكثر من 130 عارضاً من 25 دولة في النسخة الافتتاحية للمعرض المزمع إقامته في الفترة بين 2-4 مايو/أيار 2017 في مركز جدة للمنتديات والفعاليات. ويستهدف العارضون أكبر سوق للأمن التجاري والسلامة من الحرائق في الشرق الأوسط.

وقد أفادت شركة «فروست أند سوليفان» للأبحاث التحليلية، بأن حجم إنفاق المملكة على الأمن التجاري والأمن الوطني والسلامة من الحرائق قد بلغ 5,4 مليار دولار في 2016، وهو ما يمثل 42 في المائة من حصة السوق الشرق أوسطية خلال العام الماضي. وتضم قائمة شركاء إطلاق معرض إنترسك السعودية أسماء شهيرة عالمياً؛ مثل هيكفيجن، داهوا، أكسيس كوميونيكيشنز، نيداب، مايلستون، بريستول، سي بي بلاس، دورماكابا، دراجر، جينيتك، هانوها تكوين، هاكرو جروب، إتش آي دي، نافكو، بليكو باي شنايدر إلكترونيك، بروميس تكنولوجي، سمييس ديتكشن، ونيتين فاير بروتكشن إنداستريز، إلى جانب كبرى الشركات المحلية، مثل العالمية جروب وزد إم آر تكنولوجي ديستريبيوشن. وينضم إلى هذا الحدث، الممتد على مدار ثلاثة أيام، أجنحة دولية من الهند والصين وجمهورية التشيك، فيما يُسلط مؤتمر السلامة في تصميم المباني في الثاني

مفكرة إجمال الأعمال ٢٠١٧

مايو/أيار

جدة	٤ - ٢	معرض إنترسك المملكة العربية السعودية
الدوحة	١١ - ٨	معرض مشروع قطر
الدوحة	١٨ - ١٧	مؤتمر قطر للصحة والسلامة والبيئة والوقاية من الحريق

يونيو/حزيران

لندن	٢٢ - ٢٠	معرض الصحة والسلامة
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معهد رأس الخيمة للتدريب البحري يفي باحتياجات التخصص

معين. كان هذا العامل، إلى جانب النمو الدائم ونجاح إمارة رأس الخيمة في ترسيخ مكانتها كمركز تجاري بحري نشط، دافعاً لتدشين معهد التدريب البحري التابع لموانئ رأس الخيمة».

وسيتمركز المعهد، بشكل مبدئي، في ميناء صقر، أكبر الموانئ الخمسة في إمارة رأس الخيمة والمتخصص في استقبال الحاويات الضخمة في الشرق الأوسط. وستجري بعض التدريبات في ميناء الجير، كما تُقدم الدورات التدريبية بالتعاون مع إدارة الدفاع المدني برأس الخيمة. ومن بين الدورات التدريبية المعروضة، دورة السلامة الأساسية 2010 STCW حسب الاتفاقية الدولية لمعايير التدريب والإجازة والخفارة للملاحين 1978، ودورة سائقي السفن التي يصل طولها إلى 12 متراً، والتي أصبح الخضوع لها إلزامياً من قبل الهيئة الاتحادية للمواصلات. وتتناول الدورات التدريبية الأخرى الإسعافات الأولية، والأمن، ومكافحة الحرائق، وانسكاب النفط، والتوعية بالمواد الخطرة، وكذلك التوعية بكريبتيد الهيدروجين. كما يوفر المعهد دورات تدريبية مخصصة حسب احتياجات العملاء المحددة، وقد عرض بالفعل دورات مخصصة استجابةً لطلبات الموانئ المحلية.



التدريب على الوقاية من الحرائق في معهد رأس الخيمة للتدريب البحري

الأنشطة التجارية في موانئ رأس الخيمة، وبخاصة مدينة رأس الخيمة الملاحية التي تعد إحدى كبرى المناطق الحرة الرئيسية في الشرق الأوسط ذات المنفذ المائي، وهي تفي باحتياجات العديد من الشركات الدولية. وقال الكابتن مايك ماجي، مدير المرفأ في رأس الخيمة: «تعني المتطلبات البحرية الإلزامية للتدريب، حسب توجيهات الهيئة الاتحادية للمواصلات البرية والبحرية، أن الموظفين والمتعاملين اليوم في موانئ دولة الإمارات، سوف يخضعون لتدريب بحري قانوني

أعلنت هيئة رأس الخيمة للموانئ عن تدشين معهد رأس الخيمة للتدريب البحري، في إطار تلبية الطلب المتنامي على التدريب البحري المتخصص في رأس الخيمة والإمارات الشرقية، والتي تمتلك نشاطات بحرية متنوعة نتيجة لنجاح النشاطات الاقتصادية البحرية في الإمارة.

وقد شهدت الإمارة، تحت قيادة ورؤية صاحب السمو الشيخ سعود بن صقر القاسمي، حاكم إمارة رأس الخيمة، نمواً اقتصادياً هائلاً ترافق مع زيادة

هانويول تطرح حلاً جديداً يحافظ على سلامة

العاملين في المواقع البعيدة

العالم، عبر المحيطات والخطوط الجوية، وفي المناطق القطبية.

من ناحيته، قال تيلور سميث، رئيس شركة هانويول لحلول سير العمل: «يتعاطف احتياج المسؤولين عن الموظفين في المواقع البعيدة، لا سيما العملاء الوحيدين الذين قد يؤديون أعمالاً خطيرة، إلى طريقة فعالة للبقاء على اتصال بهؤلاء العاملين للمحافظة على أمنهم وسلامتهم. وتوفر تكنولوجيا هانويول للاتصال بالعاملين ومنصة شركة إيريديوم عالية الكفاءة، إجراء الاتصالات عبر القمر الصناعي من أي مكان في العالم. وهذا يمنح العاملين في المناطق النائية، مثل

أعلنت شركة هانويول عن تدشين منتج جديد متصل بالقمر الصناعي لمساعدة الحكومات والشركات والمنظمات على مراقبة موقع وسلامة العاملين في المواقع البعيدة. يستخدم برنامج التعقب الشخصي «Personal Tracker» من هانويول شبكة القمر الصناعي التابعة لشركة إيريديوم، والتي تدور في مدار أرضي منخفض، وهي مجموعة الأقمار الصناعية الوحيدة التي توفر تغطية من القطب للقطب، واللازمة لتعقب الأصول والأشخاص في المواقع البعيدة بشكل فعال. ويتيح الجهاز الجوال للشركات التواصل مع العاملين لديها، أو تعقب الأصول في أي مكان في



برنامج التعقب الشخصي يستخدم حصرياً على شبكة إيريديوم

شاهي هذا العمود ...

أخبار:

- معهد رأس الخيمة للتدريب البحري يفي باحتياجات التخصص ٤
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بدء العدّ التنازلي لمعرض إنترسك ٢٠١٧ في السعودية ٥



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سلامة العمليات .. كيف يمكن قياسها؟

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العدد الثالث 2017

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