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Incorporating: Corporate Risk Management • Occupational Hygiene

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Introducing the DuPont™ Arc-Guide

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- The Institute of Safety Management
- Southern African Protective Equipment Marketing Association
- Southern African Institute for Occupational Hygiene

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Editor's Comment

SAFECONEX has historically been held this time of year. We have had many queries from our regular participants about the dates to be diarised for this year. However, after much debate, the committee decided to hold this event every second year. With the result, we are now planning 2012's event and as soon as the dates and venue are available we will publish them. Watch this space...

The opening presentation of SAFECONEX 2010 held just a year ago was the "Road to Zero Incidents" given by Mr Thobile Lamati, Chief Inspector, OH&S from The Department of Labour. The aim of the Department being to ensure total eradication of injuries and fatalities and to eliminate exposure to hazardous working conditions, in all our workplaces. A year on and I can only wonder how much impact his words had on our participants, and how much success the Department has had with their endeavours.

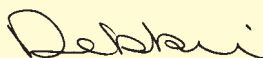
Occupational injuries, diseases and fatalities continue to plague our country. Workers die all too frequently from workplace incidents and due to occupational diseases. Further, an unacceptable amount of time from work is lost because of workplace injuries, no matter how minor they may seem.

This suffering which often may be avoidable, affects thousands of workers each year as well as their families, communities and workplaces. In addition, these incidents continue to place a heavy burden on our already overloaded healthcare system.

Surely all the above issues should provide companies with enough motivation and obligation to increase their efforts to improve workplace health and safety!

With the implementation of The New Companies Act, companies will have to include the so-called sustainable issues in their reports. Financial reporting alone is no longer considered sufficient for informed assessment. It is also necessary to explain how the company is impacting on the community's economic life through its operations, and how the company is going to improve the positive aspects and eradicate or ameliorate the negative aspects. Corporate culture needs to embrace OH&S, so now reports will also have to include phrases such as "10 people died in our factories this financial year".

We encourage companies to put more effort into the health and safety of their employees.



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Introducing the DuPont™ Arc-Guide

The DuPont™ Arc Guide was launched at African Utility Week Conference & Exhibition in Cape Town on 15th March 2011. This approach to electrical arc risk is a web based service offering for electrical engineers in companies that want to be compliant with local requirements such as SANS 724 and want to create a safer working environment.

The DuPont™ Arc Guide will help you understand, evaluate and reduce the severities and consequences of electrical arc hazards, and is organized into the 4P approach: *Predict, Prevent, Protect* and *Publish*.

Predict – safeguard your workers by predicting the severity of arc flash so you can assess and manage risk effectively

Prevent – look at ways to prevent arc flash from occurring and endangering your workers

Protect - when prevention is not enough, protective measures such as PPE may be required.

Publish – employ training measures and publish labels to warn workers of high levels of incident energy and risk of arc flash injury

Contact us today to find out how DuPont™ Arc Guide may help you protect your employees.

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DuPont™ Protera® arc protective clothing helping to meet SANS 724 guidelines

DuPont™ Protera® has gained rapid prominence in the electric arc protective clothing market in South Africa, combining the science of safety and comfort in an inherent flame resistant garment that stands up to repeated washes. Using Protera® electric arc protective clothing helps to safeguard electricians, utility workers, or other industrial workers from electric arc hazards they face.

"In many cases, industry is not sure where and how to start the process of designing an appropriate level of arc protection, given the high hazard nature of the risk involved. Many new suppliers have entered this segment in the last year with a wide array of solutions,

resulting in challenges related to adherence of SANS 724 principles" adds Ajen Maharaj of DuPont.

SANS 724 will provide important guidelines for South African industry to raise the bar in electric arc protection. The most effective strategy is to implement a state-of-the art programme with arc hazard analysis as the basis. This approach will help an organization identify where exposure potential exists; eliminate hazards through design changes or other people controls; reduce the frequency of potential arc flash incidents; and ensure that well constructed, quality approved PPE is issued to relevant workers.



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NOSA Mining



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AUDITS

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• Baseline Audit

A mine or mining company that wants to ensure its operation(s) complies with SHE (Safety, Health, Environment) standards, can request NOSA to conduct a baseline audit of major risk areas. This identifies problem areas, from which a needs analysis is drawn up which outlines procedures that the mine should

implement to manage its risks effectively.

• Grading Audit

After one year, NOSA conducts a grading audit. One, two, three, four or five stars are awarded as a symbol of SHE risk management excellence. The grading audit also identifies further problem areas which can be addressed through consultancy and training. Grading is undertaken once a year.

CONSULTING

While SHE procedures are being implemented, regular consultation with NOSA is provided to monitor progress, ensure that correct procedures are followed and relevant policies are implemented. Consultancy services embrace legal aspects, risk, occupational hygiene, occupational medicine and environmental management.

The NOSA Integrated Five Star System makes the complex business of occupational risk management easy to understand, manage and implement, ensuring the highest standards of occupational safety, employee health and morale and managing the state of the natural environment.

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Applying SHE Principles and Procedures (ASHEPP) for Mining	2	R1 771.93	R2 020.00	R1 684.21	R1 920.00
Auditor's Course	5	R8 421.05	R9 600.00	R8 201.75	R9 350.00
Climate Change Management Course	1	R903.51	R1 030.00	R842.11	R960.00
Corporate Governance	2	R2 701.75	R3 080.00	R2 614.04	R2 980.00
Fire-Fighting	2	R701.75	R800.00	R701.75	R800.00
First-Aid Level 1	2	R605.26	R690.00	R605.26	R690.00
First Aid-Level 2	2	R701.75	R800.00	R701.75	R800.00
Hazard Identification and Risk Assessment (HIRA)	2	R1 675.44	R1 910.00	R1 587.72	R1 810.00
Introduction to Occupational SHE	2	R1 771.93	R2 020.00	R1 684.21	R1 920.00
Introduction to Occupational Health and Safety Act (OHSAct)	1	R894.74	R1 020.00	R850.88	R970.00
Introduction to SAMTRAC® for Mining	3	R2 780.70	R3 170.00	R2 649.12	R3 020.00
ISO 9001:2008 Introduction	1	R1 815.79	R2 070.00	R1 771.93	R2 020.00
ISO 9001:2008 Implementation	3	R4 947.37	R5 640.00	R4 815.79	R5 490.00
ISO 9001:2008 Internal Auditors Course	3	R4 947.37	R5 640.00	R4 815.79	R5 490.00
ISO 14001 Introduction	1	R1 815.79	R2 070.00	R1 771.93	R2 020.00
ISO 14001 Implementation	2	R2 982.46	R3 400.00	R2 894.74	R3 300.00
ISO 14001 Internal Auditors Course	3	R4 947.37	R5 640.00	R4 815.79	R5 490.00
OHSAS 18001 Introduction	1	R1 815.79	R2 070.00	R1 771.93	R2 020.00
OHSAS 18001 Implementation	2	R2 982.46	R3 400.00	R2 894.74	R3 300.00
OHSAS 18001 Internal Auditors Course	3	R4 947.37	R5 640.00	R4 815.79	R5 490.00
ITIS®: Train-the-Trainer	5	R4 833.33	R5 510.00	R4 614.04	R5 260.00
Mine Health and Safety Act (MHSAct)	1	R894.74	R1 020.00	R850.88	R970.00
Namibian SAMTRAC® for Mining	10	R10 789.47	R12 300.00	R10 350.88	R11 800.00
NOSA Integrated Five Star System Navigator	2	R1 807.02	R2 060.00	R1 719.30	R1 960.00
RiskWorks® Miracles® Course	5	R5 307.02	R6 050.00	R5 087.72	R5 800.00
Safety for Supervisors Training Course (SSTC)	2	R1 771.93	R2 020.00	R1 684.21	R1 920.00
Safety for Supervisors Training with Practical	3	R2 605.26	R2 970.00	R2 473.68	R2 820.00
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Pitfalls in maintaining ISO 14001 certification in the mining sector

By Ciranne Bate, Senior Consultant, Auditing and Training – NOSA Mining Division

The overall intent of ISO 14001, an international standard for an environmental management system (EMS), is to continually improve environmental performance. The key word being, continually. However, particularly in the mining environment, where the pressures of production and safety often overwhelm other commitments, achieving the initial certification to ISO 14001 is where the majority of the support is given. Over time, backing from management and employees wavers and the management system becomes static. Maintaining ISO 14001 certification becomes problematic. This article addresses common pitfalls observed by NOSA auditors that consistently arise during mining audits and cause difficulties in retaining ISO 14001 certification.

The basis of these, and probably the most critical element of the EMS, is the upkeep of the aspect and impact register. The aspect register is the foundation of the EMS and should reflect all current risks associated with a mining operation. However, once initially drawn up, it often fails to reflect the changes in the mining operation over time.

Considering the vast scale of mining operations, it is impossible for the risks and significance ratings identified in the aspect registers to remain the same. For example, over time washbays and bund walls crack from heavy earthmoving vehicles, shutdowns result in the generation of huge volumes of waste not disposed of in designated areas, process change due to new technologies or financial situations, etc. All of these changing situations should be reflected in the aspects register to ensure that objectives and targets are focused on continual environmental improvement. Aspect registers should be regularly reviewed and revised particularly following audits, inspections, incidents and when objectives are completed.

Always keep in mind that the aspect register must be realistic to the risks of the operation and kept "live".

Environmental communication is another area that is often neglected once initial certification to ISO 14001 has been attained. To achieve continued support for effective implementation of the EMS, employees need to be constantly made aware of their job responsibilities towards the environment and their EMS requirements. One environmental training session prior to certification is soon forgotten. Constant reminders should be given in toolbox talks, as well as through refresher induction training. The question is often, how much training; how often; what material? The focus should be on what employees need to know to do their job and comply with the EMS requirements, so don't waste time training the workshop cleaner the clause structure in ISO 14001, when their primary needs should be a focus on waste segregation and cleaning up of hazardous spills. ISO 14001 is a practical and visible management system, so the certification auditor will focus on results, not only paperwork, by walking around the mining operations and talking to employees.

The ISO 14001 Standard requires management to ensure availability of resources to maintain and improve the EMS. These resources include human resources; a resource often forgotten once the initial ISO 14001 certification is achieved. Mining operations comprise many different divisions and one or two appointed EMS representatives in the company's environmental department cannot continue to maintain implementation of the EMS across the mine. Adequate "people resources" are required in all mining divisions. It is the responsibility of each division to implement the EMS procedures and provide feedback in terms of changing aspects and impacts, achievement of objective and targets, environmental incidents and results of inspections. This is essential to continued maintenance and development of the EMS and also ensures greater ownership of the system.

Commitment to legal compliance is a requirement of an ISO 14001 Policy. An organisation therefore needs to demonstrate that it has evaluated its compliance with legal requirements. ISO 14001 requires periodic compliance evaluation, which implies that undertaking one legal compliance audit to achieve certification is not sufficient. Unfortunately, the ISO 14001 Standard does not stipulate the frequency of this compliance evaluation. However, mining operations are considered high risk by certification bodies and therefore more compliance evaluations are required than other industries. Certification bodies often expect an annual evaluation. Given the complexity of mining processes, the significance of potential pollution issues, the potential negative publicity associated with mining operations and the changing and vast body of environmental legislation in South Africa, a frequent, value adding legal compliance audit becomes critical.

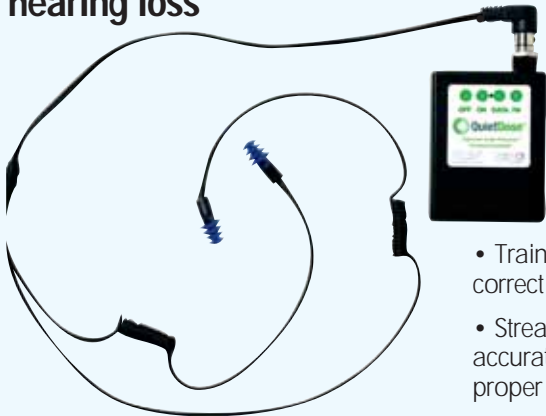
The last common pitfall observed by NOSA auditors is ineffective internal audits of the EMS. The results of internal audits provide direction for change in the EMS and are therefore critical to the concept of continual environmental improvement. Spending time in selecting a competent internal audit team and planning the audit demonstrates commitment from management to ensuring that the EMS conforms to the requirements of the ISO 14001 Standard and that the EMS has been properly implemented and maintained.

The above observations, while not exhaustive, should help mining companies identify the common pitfalls to maintaining their ISO 14001 certification.



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Noise exposure in real-time to help prevent workplace hearing loss



Track, document, and address the potential of occupational hearing loss and Standard Threshold Shift (STS) in real time

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- Compare the benefit of monitoring employee noise dose versus making capital investments in engineering controls to reduce specific noise levels.

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"The QuietDose personal dosimeter measures the actual noise levels reaching a worker's eardrums, in real-time, over an entire work day. QuietDose provides safety managers with an unprecedented level of personalised data to create the most customised, and effective Hearing Conservation Programs for each worker. The result? Fewer documented cases of occupational hearing loss for employees, and fewer claims and lower compensation costs for employers. Supervisors can also use the personalised data to improve productivity by better managing worker deployment in areas of extreme noise" said Paul Barker, of Howard Leight by Sperian.

In-ear measurement, hearing loss prevention

The QuietDose system consists of a small Exposure Smart Protector (ESP) Dosimeter that's worn by employees in a shirt pocket or on the back of a hardhat; special earplugs or an earmuff with integrated microphones that record real-time in-ear noise levels; and a connecting harness. An infrared reader enables safety managers to retrieve data from the ESP Dosimeter at the end of each shift or work week and analyse the results on a personal computer.

QuietDose enables safety managers and employees to:

An additional benefit of the system is that workers themselves can personally monitor and control their noise exposure in real-time. Flashing alerts indicate when noise exposure reaches or exceeds prescribed limits. Also, if an earplug has not been inserted properly, QuietDose will alert the worker that they are not receiving adequate protection. If a worker removes their earplug for any length of time, QuietDose will assess that additional exposure and alert them should they exceed their allowable dose.

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The Group Head Office is in Durban and there are 5 manufacturing facilities (Lesotho and KZN) and 2 distribution centres. The company has retained family values in its business dealings. Strong relationships with both customers and suppliers and a participative style of management, form the cornerstone of their success.

An unstinting pride in the brand has resulted in the innovative development of materials and fabrics woven exclusively for Jonsson garments.

Jonsson supplies top branded workwear and uniform solutions in southern Africa and also has international exposure. Manufacturing around 30 000 garments a day, Jonsson distributes to wholesalers and retailers in South Africa, Namibia, Mozambique, Swaziland, Lesotho, Angola and Botswana and internationally to North and South America, Europe and Australasia.

Approximately 2500 people are employed at Jonsson. Due to duty free exports from Lesotho to Europe, USA and Australia the expansion of Jonsson into Lesotho has been phenomenal.

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uvex Safety SA extends its boundaries to the Middle East

In 2009, uvex safety South Africa assumed responsibility for a new Market Business Unit (MBU) within the uvex safety group called Middle East Africa (MEA).

Darryl Jacobs (MD uvex safety South Africa) is the Director MBU MEA, Stephen Burrow (Sales & Marketing Manager uvex safety South Africa) is the Business Development Manager, and Mark Hodges (Finance & Operations Manager uvex safety South Africa) is the Financial Support for this unit.

Darryl Jacobs and Stephen Burrow have spent considerable time in countries in the area including Kuwait, Libya, Iran, Qatar, Egypt, Israel, UAE and Saudi Arabia, to gauge market potential and increase the significant uvex presence in the region.

With effect from 18 January 2011, the current Coastal Sales Manager in South Africa, Brett Hörter took permanent residence in Dubai (UAE) where uvex Germany has registered a branch. Brett assumed the position of Sales and Marketing Manager-Middle East.

Gerald Haas and his international sales team supply products direct from Germany, but uvex safety South Africa is responsible for ensuring sales and growth meet the targets set.



Darryl Jacobs (Director MBU-MEA)



Stephen Burrow (MEA - Business Development Manager)



Brett Hörter (MEA - Sales & Marketing Manager)



Mark Hodges (MEA - Financial Support)

This is a very positive development for uvex safety South Africa, as it affirms the important role that the local industry fulfils on a global scale, and the high regard uvex safety South Africa personnel are held within the uvex Safety Group.

For more information contact uvex safety South Africa on: Tel 031-569-6780 /

012-345-6656 or

info@uvex.co.za / www.uvex.co.za

KIMBERLY-CLARK PROFESSIONAL* - for all your safety information

KIMBERLY-CLARK PROFESSIONAL* is more than a source for quality products. We are also a great source for current safety information. We can help you stay on top of today's critical safety issues – so you can maintain business continuity, minimise lost work time and prepare for situations that can threaten the safety of your workforce. This is why we place so much importance on the comfort and fit of our ranges of protective eyewear, respirators, hearing, gloves and apparel.

Continuing investment in product development has established KIMBERLY-CLARK PROFESSIONAL* as a world leader in patented non-woven fabrics that make comfortable protection possible.

Our latest addition in our apparel range, **KLEENGUARD* A71 Chemical Resistant coverall** is made from a nonwoven fabric



with a 1.5 mil polyethylene film-laminated exterior and comfortable cloth-like interior. It is designed with no seams in the front of the garment (the primary splash area), suitable for handling of aqueous chemicals, low pressure industrial cleaning and maintenance.

Our **JACKSON SAFETY* / KLEENGUARD* gloves** range are comfortable to wear and are suitable for various industrial applications providing each member of your workforce with the appropriate hand protective equipment.

Our **KLEENGUARD* Eyewear** provides a choice of three styles, offering protection appropriate to your needs. They range from standard visitor glasses (V10) to the more stylish frames with enhanced comfort features and design (V40).

The **JACKSON SAFETY* / KLEENGUARD* Hearing Protection** offers innovative hearing protection products, designed to offer users maximum comfort and encourage conformity.

Count on KIMBERLY-CLARK PROFESSIONAL* for the products, information and resources you need to maintain workplace health and safety.

For more information on our range visit our website on www.kcprofessional.com/za or call our customer care line on 0800 11 49 49.



KLEENGUARD* Apparel

A71 Chemical Permeation and Liquid Jet Protection Apparel

Suitable for handling of aqueous chemicals, low pressure industrial cleaning and maintenance.

Protection against aqueous chemical jet & spray

- ☒ Durable film laminate with sewn and taped seams provides a barrier to chemical spray
- ☒ Sewn and taped seams with tear resistant fabric offers a strong liquid tight barrier⁽¹⁾
- ☒ Storm-flap height and hood designed for easier taping to a respirator
- ☒ Elasticated hood, cuffs and waist designed for better comfort and safety
- ☒ Highly visible for improved worker safety
- ☒ Silicone free and anti-static fabric EN 1149-1 for critical areas
- ☒ EN 14126 approved for infective agents protection
- ☒ EN 1073-2 approved for radioactive dust protection
- ☒ Keep away from flames

⁽¹⁾ Chemical test data can be found on our website www.kcprofessional.com

* Provides no protection against radioactive radiation

Product Performance Data

Fabric Tests		
Property	Test Method	Class ⁽¹⁾ or Result
Abrasion resistance	EN530 Mth 2	6
Flex cracking resistance	ISO 7854 Mth B	2
Trapezoidal tear resistance	ISO 9073-4	2
Puncture resistance	EN863	2
Tensile strength	EN ISO 13534-1	1
Resistance to permeation	EN374-3 (10% NaOH)	6
	EN374-3 (30% H ₂ SO ₄)	6
	EN ISO 13535-2	3
Seam strength		
Surface resistivity		
-inside surface	EN 1149-1:1995	<5 x 10 ¹⁰ ohm
Infective agents	EN 14126:2003 (A)	PASS
Whole Garment Tests		
Resistance to penetration by liquids (Jet test)	EN 14605:2005 Type 3-B	PASS
Resistance to penetration by liquids (Spray test)	EN 14605:2005 Type 4-B	PASS
Determination of resistance of suits to penetration by aerosols and fine particles	EN ISO 13982-1:2004 Type 5-B	PASS
Radioactive dust	EN 1073-2:2002	1
<small>(Tests performed with taping at wrist, ankles and hood)</small>		

⁽¹⁾ As specified in European Standards documents EN 13024:2005 and EN ISO 13982-1:2004

Code	Product	Colour	Case Quantities
9570000 - 9572000	KLEENGUARD* A71 Coverall M - XL	Yellow	10



CE0120



EN 14605:2005
Type 3-B
Liquid tight clothing



EN 14605:2005
Type 4-B
Spray tight clothing



EN ISO 13982-1:2004
Type 5-B
Particle protection



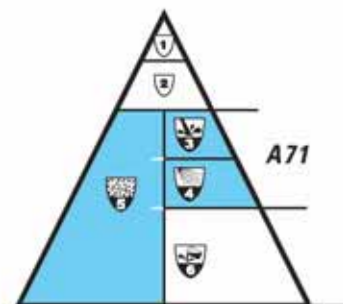
EN 14126:2003
Infective agents protection



EN 1073-2:2002
Radioactive dust contamination protection



EN 1149-1:1995
Antistatic



High Performance Apparel Fabric

Outer layer ☒ film coating resists jet, spray and splash from many liquids⁽¹⁾ and dry particulates. Inner layer ☒ made from spunbond polypropylene for added comfort and strength.

www.kcprofessional.com/za

For more information call our customer care line on 0800 11 49 49

* Registered Trademark or Trademark of Kimberly-Clark Worldwide, Inc. © 2008 KCWW

KleenGuard

MSA Africa rewards safe practice with golden helmet award

MSA Africa is proving its dedication to safety practices by offering an international Golden Helmet Award to South African employees who have been protected from serious injury, by wearing a MSA V-Gard® hardhat.

"Our Golden Helmet Award helps employers recognise their employees' adherence to safety procedures," says Loren Pearson, Senior Product Manager Head-, Eye-, Face- and Hearing Protection, MSA Africa.



The initiative's main focus lies in the importance of using safety products in heavier industries and the ability of the MSA V-Gard® to save lives. "The real challenge lies in the perception that hardhats are not important," notes Pearson.

The recipient of the award receives a 24-ct gold-plated MSA V-Gard® hardhat as a symbolic representation of their achievement, a replacement MSA V-Gard® hardhat and a personalised certificate of recognition. This all takes place at an awards ceremony among members of the press, thus ensuring that their employer's safety programme is also promoted.

MSA's patented V-Gard® hardhat, a flagship product for the company, has a specifically engineered reaction system that exceeds SANS 1397:2003 standards. It consists of a superior quality shell made with a durable injection-moulded, 100% virgin high-density polyethylene that works together with a liner/suspension system to keep the wearer's head safe from impact.

MSA has gone to great lengths to ensure that its V-Gard® hardhat exceeds international safety standards. However,

there are many sub-standard hardhats on the market that do not exceed these specifications. MSA's V-Gard® hardhats are characterised by the trademarked "V" on the top of the hat and also comes with a SANS and DMR approval number found inside.

"In every organisation where workers wear head protection on the job, a regular hardhat replacement programme should be clearly defined and implemented," recommends Pearson. Proper usage of a hardhat is necessary to ensure that it is in the best condition to protect the wearer:

- Store out of direct sun
- Use only for designated purpose
- Do not wear additional head accessories underneath the hardhat
- Clean with warm water, never use solvents or paint cleaners
- Do not paint or place stickers on hard hat

- Never alter or modify in any way, always refer to manufacturer's guidelines
- Do not store items between liner and shell
- For adequate protection, the hardhat should fit or be adjusted to fit the wearer's head

Determining a specific lifespan for a hardhat can be difficult, especially as it depends on the circumstances for which it is used. MSA suggests that its V-Gard® hardhat should be replaced after two full years in the sun, after 12 to 18-months in harsh chemical environments, if the hardhat has been dropped from a height of a two-story building or higher, or if the hardhat has been struck by a forcible blow of any magnitude, even if no damage is visible. The liner should be replaced every 12 months.

Contact Loren Pearson: 011-610-2600
www.msaafrica.co.za

Idube safety

Idube safety is a company committed to supplying quality safety equipment and protective clothing at competitive prices with excellent backup service.

The company, Zelpy 2937 (PTY) LTD, trading as Idube safety, is a wholly owned subsidiary of Thutugani Contractors (PTY) LTD which has more than 50% black ownership.

Mr D Hucklesby, Mr H Moffatt, Mrs Raesa Mohamed are the three members of the board of directors.

With more than 50 years of combined experience in the business, we are able to offer expert technical advice and training on our range of products.

Our product range comprises of the following:

- Workmed solutions for Occupational Health, Safety and Environment.
- Rebel, Fram, and Bova safety footwear
- Howard Leight hearing protection
- Chemical resistant clothing



- 3M respiratory equipment
- Sweet – Orr overalls
- Wayne gumboots
- Fall arrest systems
- Hand protection
- Crews eyewear
- Freezer wear
- Safety signs
- Rainwear
- Overalls

We encourage our customers to approach us for any advice that they may require on our range of products and we are committed to excellent service at all times.

Contact Idube Safety: 031 304 6664

Email: peter@idubesafety.co.za

Innovative communication solutions from H.A.S.S. Industrial



H.A.S.S. Industrial's Noise-Ban Elite custom-made hearing protection devices offer optimum protection for those operating in noisy environments, while still providing the opportunity for communication.

These custom made hearing protection devices are part of the H.A.S.S. Hearing Conservation Programme that includes custom impressions, computer-aided fitting (including a leak-tight test), and training, monitoring and on-site service by SABS-accredited HASS staff.

These devices are backed by ISO 9001/2000 accreditation, the SABS-approved Performance Mark, as well as annual monitoring and ongoing end-user training.

In a recent study by the German BGIA, the findings of which were published in Health & Safety International, it was found that real-world attenuation is lower than the laboratory values for all types of hearing protectors, with formable ear-plugs and the combination of ear-muffs and ear-plugs the highest at 9dB, and custom-moulded ear plugs subject to regular functional checks the lowest, at 3dB. It is worth mentioning that custom-moulded ear plugs not subject to regular functional checks displayed a 6dB differentiation - more than the 5dB exhibited by pre-formed ear-plugs, ear-muffs and headband earplugs.

It is clear, therefore, that while custom-made hearing protection devices offer the best protection against noise-induced hearing loss, their optimum performance depends on correct fitting and regular functional checks.

For more information about hearing protection and the H.A.S.S. Hearing Conservation Programme, contact Pieta van Deventer at H.A.S.S. Industrial - 012 333-3131 or pieta@hass.co.za.

Hazmat's manufacturing facility under reconstruction

On 23 June 2010 a fire destroyed most of Hazmat's manufacturing facilities in Centurion. Hazmat has managed to setup a temporary manufacturing facility to ensure continuity of supply of their products. The good news is that the builders have started rebuilding and our new facility is planned to be ready in August 2011.

The fire came as a shock but in hindsight this also created an opportunity to replace our building and most of our manufacturing equipment with new state of the art technology.

Most of the new equipment has been ordered and will be commissioned on completion of the new building and this will allow Hazmat to manufacture even better quality products to which our clients came so accustomed to.

Hazmat Protective Systems was established in 1992 to manufacture respirators, filter canisters and impregnated carbon for the military. Hazmat is one of a few companies in the world capable of impregnating activated carbon. Currently canisters, cartridges and half masks are manufactured to benefit the workforce of companies, individuals in the mining, industrial, agricultural and private sectors of society and the SANDF.

Hazmat's manufacturing process has been certified to ISO 9001:2008 and all respiratory products are approved (homologated) by the SABS.

In carrying out day to day business, Hazmat strives to treat their employees and colleagues with respect, honesty and loyalty. Their customers always come first. Through a long-term commitment to their mission, Hazmat is known as a company with honourable values. Hazmat values the view of customers and suppliers and is seen as a supplier of good quality products and in turn adds value to the products of their suppliers.

Hazmat's primary objective is to obtain and maintain the highest standard of quality and service. This could only be achieved by stable, loyal and dedicated employees who are the drive and success of the company Hazmat Protective Systems.

Contact Julian Delpont: 012 665 9451
www.hazmat.co.za





Melinda Venter - SAIOH President -
E-mail: melindav@lantic.net

Dear Colleagues

Organisational Membership

After two rounds of voting, SAIOH members have unanimously decided in favour of the institution of the "organisational member" category. More than 90% of votes were in favour. This new category will be instituted with immediate effect.

Existing individual membership will not be affected in any way. The requirements for organisational membership will be that all prospective organisational applicants complete an application form and sign an undertaking indicating their commitment to SAIOH's principles and philosophies. Organisational membership is aimed at all organisations including AIA's with individual SAIOH members, close corporations and corporate entities such as Sasol and Anglo Platinum etc. Organisational membership offers a direct financial benefit by allowing discounts on individual membership fees, conferences and the like and existing organisations with individual members will enjoy a direct cash savings. A logo has been specifically designed which can be used by organisational members on their letter heads.

Aims and Benefits:

1. To provide organisations with the opportunity to demonstrate their commitment to occupational hygiene by "partnering" with SAIOH
2. To act as a marketing tool for the organisation i.e. service providers
3. To promote group attendance of SAIOH events by providing discounts

- to organisational members
4. Marketing the occupational hygiene profession and the SAIOH brand
5. To increase awareness of the occupational hygiene profession, targeting company decision makers
6. To provide a networking opportunity between SAIOH members and SAIOH organisational members

Organisational membership will provide:

1. Organisations with the opportunity to easily source occupational hygiene professionals and services
2. Free "Occupational Health Southern Africa" journal
3. Discount on seminar and conference fees such as Safeconex etc.
4. The right for an organisation to use the "SAIOH organisational member" logo on letterheads
5. Publishing the organisation's logo on the SAIOH website and including its name in an alphabetical list of contributors
6. Individual membership discounts for members from participating organisations
7. Discount on SAIOH and international publications
8. Discount on advertising space on the SAIOH website and in SAIOH publications
9. Discount on mailing list rental/use
10. Discount on job advertisements
11. Plaque

Types of Membership

Gold - R2,500.00 per annum which includes:

- Plaque
- Use of SAIOH organisation member logo
- Free subscription to the "National Safety" journal
- 10% individual membership discount for up to 5 members
- 10% conference discount for up to 5 persons
- 10% off attending exam preparation course

- R250.00 off advertising space in the "National Safety" journal
- R150.00 off advertising space on website
- R100.00 off job placements
- 10% off access to mailing list
- Discounted access to IOHA publications and technical notes
- Discount on exhibition space at SAIOH sanctioned conferences and events

Platinum - R5,000.00 per annum which includes:

- Plaque
- Use of SAIOH organisation member logo
- Free subscription to OH Southern Africa
- 10% individual membership discount - unlimited members
- 10% conference discount unlimited persons
- 10% off attending exam preparation course
- R250.00 off advertising space in the "National Safety" journal
- R150.00 off advertising space on website
- R100.00 off job placements
- 10% off access to mailing list
- Discounted access to IOHA publications and technical notes
- Discount on exhibition space at SAIOH sanctioned conferences and events
- A once-off editorial in the "National Safety" journal announcing the organisational members membership and commitment to occupational hygiene.
- Inclusion of the organisational member's name in the annual publication "National Safety Directory of Products and Services" which is circulated to all SAIOH and IoSM members

Membership criteria:

Open to all organisations who wish to partake in building the Occupational Hygiene fraternity within Southern Africa and promoting healthier workplaces.

A completed organisational membership application form with signed undertaking



needs to be submitted. The undertaking must be signed by a duly authorised representative of the organisation.

To join, please complete the application form and return to:

SAIOH
PO Box 14402
Clubview, 0014
Tel: 012 – 654 8349
or
saiohpresident@saioh.co.za

****Note** that the SAIOH National Council reserves the right to disapprove or withdraw any organisational membership should the actions of the organisation, in view of the SAIOH national council be contradictory to the spirit and the intent of the SAIOH organisational membership held or applied for.

Readers are encouraged to lobby your organisations to become organisational members of SAIOH and in so doing growing the institute and the profession from strength to strength.

For any further information or queries please contact the SAIOH president, Melinda Venter (saiohpresident@saioh.co.za).

Department of Labour – AIA / SANAS Accreditation

Kindly diarize the 20th of May 2011 for a meeting/workshop with the Department of Labour regarding SANAS accreditation of AIAs. More information on the venue, etc. will be distributed by the Department of Labour.

SAIOH Mpumalanga Branch Workshop

Diarize the 27th of May 2011 for a workshop that will be hosted by the SAIOH Mpumalanga branch.

Topic: Are your PAHs/CTPV sampling and interpretation of results accurate and what do you really have to know on Crystalline silica dust.

SAIOH Organisational Membership APPLICATION FORM

Complete the application and return to saiohpresident@saioh.co.za

Name of contact person: _____

Title: _____

Name of organisation: _____

Type of organisation: _____

Postal address: _____

City: _____ Province: _____

Country: _____

Postal code: _____

E-mail: _____

Web address: _____

Office phone number: _____ Fax number: _____

Date of application: _____

Annual dues are prorated as follows:

Date Application Received	Gold Dues	Platinum Dues
January - June	R2,500.00	R5,000.00
July - December	R2,000.00	R4,000.00

Options (indicate with X)

Gold Membership

Platinum Membership

Undertaking**

I (full names) _____

in my capacity as (job title) _____

do hereby declare on behalf of (company) _____

that we will prescribe and adhere to SAIOH's principles and ethics, that we are committed to the upliftment of occupational hygiene and that we will continually strive to create and maintain a healthy workplace.

***Note that the SAIOH National Council reserves the right to disapprove or withdraw any organisational membership should the actions of the organisation, in view of the SAIOH national council be contradictory to the spirit and the intent of the SAIOH organisational membership held or applied for.*



President's Message



Phillip Fourie

It gives me great pleasure to report that our institute is still growing at a steady pace. Six months ago (September 2010) we had 578 members and at end March this year we have 696. This is a 20% increase in membership. Projected for the year, this is a 40% increase in membership. Thanks to all the branches for their hard work in making the Institute a success.

We have appointed a new Marketing Manager who will assist in taking the Institute to even newer highs. Thanks to Dr. Liebenberg who has agreed to take on this very important role in the Institute.

A strategic session to map out our future is planned for 5 May 2011. Any member who wants to participate is welcome. A notification to this effect will be forthcoming.

Despite a lot of uncertainty and conflicting information about the status of the draft Construction Regulations 2010, the registration process is still going at approximately the same pace as recently. This is an indication that the registration process is a need in the market and not necessarily legislation driven.

During the past year a number of rules have been introduced to tighten up the control over the writing of exams and to ensure people turn up for exams.

The process of updating the questions and the scenarios is ongoing.

The Occupational Safety Professionals Council tried to open up the process to ensure wider interaction so that the process would be accepted through a larger part of the OHS fraternity - but with little success. Part of this approach was the participation in a process started by the SACPCMP to register different levels of safety practitioners in the construction industry.

People sometimes ask "what is in it for me to be a member of the institute". I will mention just a few reasons why I have been a member of the institute for more than 30 years.

- The institute has assisted me with the correct guidance in my career
- The institute is the only body that provides for the registration of the safety professional in Southern Africa. As you know this is done through the Occupational Safety, Health and associated professional registration board. The fact that I am registered as a RosPROF has made my career path interesting and satisfactory. (More and more employers are asking for registered safety professionals during their recruitment drives)
- The institute has offered me great networking opportunities. I have used this often during my time as a member.

- I have done many best practice visits arranged by the Institute which has broadened my scope in the safety field
- The branch meetings that I always attend provide me with updates on technical issues and good practice initiatives.

These are just a few of the things that the Institute has meant for me over the past few years. If your friend, colleague, superior or subordinate are not yet a member and registered please motivate them to take this route. It is worth it.

From the Secretary's desk

P O Box 18968
Sunward Park
1470

1 April 2011

Mr PH Fourie
President
Institute of Safety Management



Wilna Louw-Malan, National Secretary

Dear Mr Fourie

Resignation as National Secretary of the Institute of Safety Management

I hereby notify you of my resignation as National Secretary of the Institute of Safety Management, with effect from 1 May 2011.

This decision is prompted by my family's imminent relocation to the Eastern Freestate. This is not an easy decision for me but practicalities will make it impossible for me to continue my work and add value to the Institute.

I want to thank you, the National Council as well as the members of the Institute for the opportunity afforded me to be involved with Institute activities and in a small manner contribute to the development of safety into a profession.

I wish the Council and the Institute the very best for the future.

Regards
Wilna Louw-Malan



Branch News

Witwatersrand Branch

The committee for 2011:

Wihan Fourie	Chairperson
Dietlof Mare	Vice-Chairperson
Leighton Bennett	Legal Advisor
Geoff Truter	Treasurer
Jan du Toit	Marketing
Buks Burger	Web administrator
Dalene Sheasby	PRO
Wihan & Dietlof	Secretary

Magalies Branch

A special meeting was held on the 10th of February 2011 to nominate new committee members. A warm welcome to the following elected members.

Name	Portfolio Note
Steward Shapiro	Alternate (From June 2011)
Anton Schutte	Editor
John Gray	Alternate
Steven Janse van Vuuren	Chairperson
Ria Mare	Secretary
Don van Schalkwyk	Vice Chairperson
Kobus Verreyne	Alternate
Neilen Maikoo	Events Co-ordinator
Myer Wolson	Marketing
Jan Strydom	Treasurer
Piet van Dyk	Alternate

The first meeting with the new committee was held on 3rd March. The way forward for the Magalies branch was discussed and an action plan will be developed by the committee members.

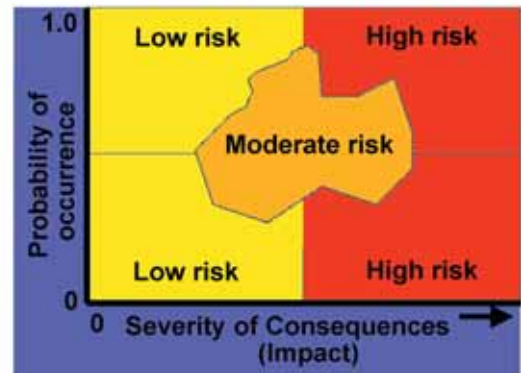
Meetings planned:

5 May	Strategic planning session - IoSM National work group
5 May	Manage Your Mind
31 May	Spotty Nominations close
31 July	Sproty Nominations close
27 Oct	IoSM Magalies AGM
3 Nov	Business Breakfast - OHS System Presentation

Contact: Anton Schutte, aschutte@basilread.co.za
Cell: 082 943 1639

Risk Assessments:

Guide to Understanding the Basics



Risk Assessment - A Guide for Understanding the Basics

Written by Leighton Bennett of Benrisk Consulting. A handy little guide for those who have to produce Risk Assessments - a growing requirement by the OH&S legislators, the King II report and a very handy management tool.

The author says in his foreword:

"The aim of this booklet is to facilitate the development of an understanding of the Risk Assessment basics and the Risk Assessment Process, with the outcome of enabling you, a novice or a professional, to perform a basic risk assessment with confidence. A basic Risk Assessment worksheet is provided for this purpose."

Contents

- Introduction
- Summary of the Risk Assessment process
- What is Risk?
- Risk Groups and Perceptions
- Why do Risk Assessments?
- What is Risk Assessment?
- What is the Risk Assessment Process?
- Risk Assessment Types
- Preparing to do Risk Assessments
- Risk Identification
- Risk Assessment worksheet (A4 size) Centrefold
- Doing risk identification inspections
- Basic Risk Evaluation
- Advanced Risk Assessment & Evaluation Tools
- Risk Appraisal
- The Worksheet Risk Assessment Steps Summary
- What next?

Available as an A5 book
Price: R75 plus VAT

Published by the Safety First Association

Tel: 012-654-8349

Fax: 012-654-8358

Email: info@raysaf.co.za

SHEMTRAC Top Student awards

SHEMTRAC Top Student December 2010

*Jaqui-Lynne de Beer, Attender & Support Co-ordinator,
Schneider Electric*

Jaqui-Lynne completed the Shemtrac course at HASLAC as Top Student.

She says, "I serve on Schneider's Health & Safety Committee as environmental facilitator. I thoroughly enjoy the health and safety environment; this is what I am supposed to do. I am currently studying a BA Environmental Management degree through Unisa and attended this course to complement my studies and experience."

"I believe that Risk Assessment is the most important health and safety aspect in any company. Most of the course was familiar, but the Construction Regulations were new to me. I loved the course; I was up early every morning and studied until late each night.

"HASLAC is a very professional and efficient company and the presenters are brilliant. They have excellent knowledge, practical experience, and great enthusiasm for the field. They have the ability to keep your interest the entire time with exciting course content," concludes Jaqui-Lynne.



SHEMTRAC Top Student February 2011

Madelein Champion, Accountant/Safety Officer, Keren Kula Construction

Madelein recently completed the Shemtrac course at HASLAC as Top Student.

She comments, "I thoroughly enjoyed the real life video material included in the course. The visual impact emphasizes just how important safety is in any company."

"HASLAC offers the ideal environment for training, it is very relaxing and there is no pressure on the students. I enjoyed the interaction between the trainer and the students and found the rest of the HASLAC staff I dealt with very friendly and helpful."



SHEMTRAC Top Student March 2011

Kellebogile More, Facilitator

Kellebogile completed the Shemtrac course at HASLAC as Top Student. She believes that the content and actual implementation thereof is the most important aspect of the course. She is currently working towards becoming a SHE expert, consulting to companies in the future.

She comments, "I enjoyed the entire course, its presentation, the tests, the Q&A as well as the assignments. Peter is a very skilled and knowledgeable presenter. He presented many practical examples to assist with the implementation of the theory."

"I found the HASLAC staff friendly and easy to get along with," she concludes.



2-WEEK SAFETY, HEALTH AND ENVIRONMENTAL MANAGEMENT TRAINING COURSE SHEMTRAC

WHO SHOULD ATTEND

Occupational Safety Health and Environmental Practitioners and Co-ordinators, Risk managers, Health and Safety Committee members, Engineers and Learner Engineers, Staff involved with the day-to-day management of a SHE program, Department of Labour Inspectors.

COURSE CONTENT

- Complete Safety Principles needed in order to ensure effective SHE Management within the organisation.
- The course is based on basic adult training techniques, work-shopping and practical problem solving.
- In order to pass, students should obtain an average of at least 70%.

WEEK 1 - Legal Liabilities

MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY
Overview OHS Act Sections	Overview OHS Act Regulations	Hazard Identification and Risk Assessment	Incident Investigation Management	Emergency Preparation

WEEK 2 - SHE Management

MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY
Environmental Management	Health and Hygiene Management	Workplace Management	SHE Business Administration	Systems Demo

AIM

The aim of this course is to equip the delegate with the necessary skills and knowledge in order to manage Safety, Health & Environmental activities effectively at work. Delegates will gain knowledge and insight regarding their role and responsibilities as stipulated by the OHS Act; as well as an overview of the relevant Regulations. By attending the course candidates will be equipped to effectively manage / apply Environmental Management, Health & Hygiene Management, Risk Management; as well as Workplace Management. The candidate will also be able to prepare, implement and manage and Emergency Plan for his organisation. Further more the individual will be equipped to conduct proper Incident Investigations and compile a written report on his findings. After successful completion of the course delegates will be in the position to enrol for the 3-Week In-depth OHS Act course.

2011 COURSE DATES

DATE AND VENUE	
17 – 28 January	15 – 26 August
07 – 18 February	29 August – 09 September
07 – 18 March	12 – 23 September
04 – 15 April	26 September – 07 October
09 – 20 May	10 – 21 October
30 May – 10 June	24 October – 04 November
20 June – 01 July	07 – 18 November
11 – 22 July	21 November – 02 December
25 July – 05 August	05 – 15 December

VENUE

<p>HASLAC Training Academy 455/3 Alsation Road, Glen Austin Ext 3, Midrand, 1685</p>
<p>Accommodation is available on the premises at MALEMBE Lodge Tel (011) 312 0828 for reservations</p>

COURSE FEE

Cost per Person Excluding VAT
R7,500.00
Cost per Person Including VAT
R8,550.00
<i>The above fees include expert tuition, all course material, certificates, Lunch and refreshments are included.</i>
TIME
08:00 for 08:30 - +/- 16:00 daily

RSVP: JACO STEYN TEL : (011) 312 0828/9 FAX : (086) 504 0933 JACO@HASLAC.CO.ZA

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Department of Labour
DECISION NUMBER; C.I. 481



2011 Public Seminar/Training Course Schedule

	Price Excl VAT p/p	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
MODULAR BASED TRAINING													
(A12) 4 Hour NEW Pressure Equipment Regulation Training	R 650.00	12		01		03		01		01		01	
(A19) 1 Day NEW Construction Regulation Training	R 800.00		01		01		01		01		03		05
SEMINARS AND WORKSHOPS													
(B1) 4 Hour OHS Act: Management Legal Liability - Sec 16(2) Course	R 800.00	13	02	01		03	06	01	04	01	06	01	08
(B2) Day Management Liability and Responsibilities Course (including HIRA)	R 1 400.00		01-02		04-05		02-03		02-03		04-05		06-07
(B3) 1 Day COID Act Management Training	R 750.00	14		02		06	08		03		05		
(B4) 1 Day OHS Act & COID Act Link	R 800.00			02		03		04		05		03	
(B5) 1 Day OHS Act and Regulation Specific Training	R 800.00	14		03		06		04		05		07	
(B6) 2 Day OHS Act and Regulation Specific Training	R 1 500.00		02-03				06-07		04-05		06-07		08-09
SHORT COURSES													
(C01) 1 Day SHE Representatives Course	R 750.00	18	01	04	04	11	07	05	10	06	11	08	12
(C02) 2 Day SHE Representative and Committee Activities Course	R 1 200.00		02-03		05-06		08-09		11-12		12-13		
(C03) 2 Day SHE Representative Activities Course - Unit Standard 259622	R 1 300.00		02-03		05-06		08-09		11-12		12-13		
(C04) 1 Day SHE Incident Investigation Course	R 800.00		03		20			06		07		09	
(C05) 2 Day Advanced SHE Incident Investigation Course	R 1 250.00			07-08			09-10		11-12		12-13		
(C06) 2 Day Advanced SHE Incident Investigation - Unit Standard 259617	R 1 300.00			07-08			09-10		11-12		12-13		
(C07) 1 Day Obligations of Management	R 800.00		04		07		13		15		17		01
(C08) 2 Day Lock Out & Safe Working Procedures Course	R 1 200.00	19-20			07-08			07-08		08-09		10-11	
(C09) 1 Day Confined Space Entry	R 650.00		04			10		11		12		14	
(C10) 1 Day SHE REP - in the Office Environment Course	R 750.00	19		09		09		12		13		15	
(C11) NEW - 2 Day Risk Management Training Course	R 1 250.00			10-11			14-15		16-17		10-11		01-02
(C12) 1 Day Hazard Identification and Risk Assessment - HIRA	R 800.00	20	07	10	11	12	14	13	17	14	19	16	14
(C13) NEW - 2 Day Hazard Identification and Risk Assessment - HIRA	R 1 200.00	20-21	07-08	10-11	11-12	12-13	14-15	13-14	17-18	14-15	19-20	16-17	14-15
(C14) 1 Day Hazardous Chemical Substances Handling	R 800.00	21		14		13		15		16		18	
(C15) 1 Day Safe Stacking & Storage Course	R 650.00		09		13		17		19		21		
(C16) 2 Day First Aid Level 1	R 800.00	24-25	07-08	14-15	11-12	16-17	20-21	18-19	15-16	19-20	17-18	21-22	12-13
(C17) 2 Day First Aid Level 2	R 950.00	26-27	09-10	16-17	13-14	18-19	22-23	20-21	17-18	21-22	19-20	23-24	14-15
(C18) 3 Day First Aid Level 3	R 1 150.00	26-28		16-18		18-20		20-22		21-23		23-25	
5 Day First Aid Level 2	R 2 500.00	24-28		14-18		16-20		18-22		19-23		21-25	
(C19) 1 Day Basic Fire Fighting	R 650.00	24	11	22	14	18	22	20	11	21	24	18	
(C20) 1 Day Emergency Evacuation and Planning	R 650.00	25	11	23	18	19	23	21	04	22	27	16	
(C21) 2 Day Emergency Evacuation and Planning	R 1 200.00	25-26		23-24	18-19	19-20	23-24	21-22	04-05	22-23	27-28	16-17	
(C22) 1 Day Job Safety Analysis Training Course	R 800.00		14			23							
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(C25) 1 Day Construction and Contractor Management Training	R 900.00		14		18		20		10		10		
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2011 Public Seminar/Training Course Schedule

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(D01) 3 Week In-Depth OHS Act Training Course Module 2 (Engineering)				28-01		03-06		04-08		05-09		07-11	
(D01) 3 Week In-Depth OHS Act Training Course Module 3 (Health)					18-21	30-03			22-26		24-28		05-09
(D02) 5 Day Facilitator Learning Program (TTT) PRE-REQUISITE - 3 WEEK OHS ACT OR NADSAM	4 350.00	17-21 31-04	21-25				13-17					21-25	
SHEMTRAC™	R 7 500.00	17-28	07-18	07-18	04-15	09-20 30-10	20-01	11-22 25-05	15-26 29-09	12-23 26-07	10-21 24-04	07-11 21-02	05-15
(E01) 1 DAY ISO 9001 - INTRODUCTION COURSE	R 950.00	27		28		25		27		28		28	
(E02) 1 Day ISO 14001 INTRODUCTION COURSE	R 950.00	28		29		26		28		29		29	
(E03) 1 Day OHSAS 18001 INTRODUCTION COURSE	R 950.00	31		30		27		29		30		30	
(E04) 2 Day Implementation and Development ISO 9001	R 2 850.00		14-15		18-19		23-24		23-24		20-21		
(E05) 2 Day Implementation and Development ISO 14001	R 2 850.00		16-17		20-21		27-28		25-26		25-26		
(E06) 2 Day Implementing and Development OHSAS 18001	R 2 850.00		21-22			04-05	29-30		29-30		27-28		

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Is your risk leadership tone audible in your organisation?



By HOPE
MUGAGGA
KIWEKETE

While leaders are urged to provide strategic direction to their organisations there are several risk leadership challenges that need to be addressed. The embedment of risk management practices into an organisation's operations are equally a challenge that many risk professionals deal with each day. Since this cannot be achieved in isolation, it is important to highlight whether your risk leadership tone is audible enough in your organisation. This is the focus of this article.

Do you speak the Enterprise Risk Management (ERM) language?

Expanding your knowledge about what risks face your industry, not only your business is crucial. ERM provides a broader perspective of an organisation's risks as well as methods on how to deal with them. This will further enhance your understanding of your risk profiles. As a result, a well positioned leader should be in position to do a personal assessment on his or her comprehension of ERM.

Are you creating a risk conscious culture?

A risk conscious culture within the work environment is aware of what impact their day-day activities have on delivering the organisation's mandate to its shareholders and customers, to mention but a few. By knowing the risks associated with their activities, you will be developing a pool of risk champions. Hence in an environment like this one, it is usually evident that the risk strategy is

practically interpreted into the day to day business operations.

Are you communicating the risk management strategy?

The success and buy in of your risk management strategy depends to a large extent, on your ability to communicate it throughout the organisation. Enterprise-wide engagement of all structures in the organisation is the cornerstone to ensure that this strategy is understood.

Is risk management embedded into the organisations' operations?

Keeping risk management in the limelight is a goal sought by any strategic business

leader. The sixth edition of Deloitte's Global Risk Management Survey highlights that "In addition, creating a risk-aware culture may require organizations to go beyond the CRO and senior executives, and to infuse risk considerations into the fabric of the organization".

If the tone of risk leadership is to be heard throughout the organisation, managing risk should not be taken as a separate discipline. It is important that as leaders delegate day to day business activities, they should be involved equally in ensuring that risk management is an ingredient on how the business is run. In cases where you have a culture charter, it makes it easier to integrate risk management into your business.



Figure 1: Leadership Talent Cycle

Source : Heidrick & Struggles

Are you attracting and retaining the right candidates?

The identification and analysing of risks depends largely on the competence of personnel. For example, Heidrick & Struggles, a Leadership Advisory firm developed a "leadership talent cycle". It envisaged that by clicking each block as illustrated in figure 1, it will eventually assist one in performing a leadership risk diagnostic about themselves. In a nutshell, we see that in stage 1, it advocates for "identifying and attracting the right talent".

Are you participating in improvement programmes?

The strength and visibility of any effective leader is what any organisation desires. However, this is only part of a risk leadership package. Any personnel with this responsibility should participate in initiatives that are important to guide his or her organisation's risk management programmes. Leading by example is one of the underlying principles. This requires among others, walking the talk. Always remember that your conduct should always be a mirror of your organisation's values and beliefs.

What mistakes should one avoid?

According to Taleb, Goldstein, and Spitznagel "Risk managers need to avoid six key mistakes in order to change their ways of thinking about risks and to lessen their vulnerability to so-called "black swans." The following are the six mistakes that they highlight;

1. We think we can manage risk by predicting extreme events.
2. We are convinced that studying the past will help us manage risk.
3. We don't listen to advice about what we shouldn't do.
4. We assume risk can be measured by standard deviation.
5. We don't appreciate that what's mathematically equivalent isn't psychologically so.
6. We are taught that efficiency and maximizing shareholder value don't tolerate redundancy.

Way forward

There is no doubt that if you take up a leadership role in your organisation, it is

indeed a remarkable achievement. However, as one steers through the leadership turbulences that the responsibilities and accountabilities demand, the leadership tone should never nose dive. It should by all circumstances remain audible. The health condition of your organisation depends on it!

References:

A structured approach to Enterprise Risk Management (ERM) and the requirements of ISO 31000 available at

http://www.theirm.org/documents/SARM_FIN AL.pdf

Leadership Talent Cycle available at

<http://www.heidrick.com/LeadershipConsulting/Diagnose/Pages/LeadershipRiskAnalysis-TalentCycle.aspx>

The Six Mistakes Executives Make in Risk Management". Harvard Business Review October 2009 available at

<http://hbr.org/2009/10/the-six-mistakes-executives-make-in-risk-management/ar/1>

Global Risk Management Survey: Sixth Edition available at

http://www.deloitte.com/assets/Dcom-UnitedStates/Local%20Assets/Documents/us_fsi_GlobalRiskMgmtSrvy_June09.pdf

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The course syllabi are based upon, and aligned with the SAIOH; BIOH and HWSETA syllabi. All course facilitators have extensive training experience and is registered with the South African Institute for Occupational Hygiene (SAIOH).

Contact:

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Pressure Relief

by means of rupture discs



ROB HAS WORKED ON OIL DRILLING PROJECTS IN GABON, SAUDI ARABIA, QATAR, THE UNITED ARAB EMIRATES, OMAN AND THE UK FOR SOME YEARS.

Ensuring that equipment and piping systems do not exceed their maximum allowable working pressure is an important safety engineering aspect. It entails making provisions in the process control system to reduce the potential for attaining the MAWP and finally requires a pressure relieving device to be installed that operates at a set pressure, usually at or just below the MAWP. Most safety practitioners are familiar with pressure relief valves - spring loaded devices that open at the set pressure and close when the pressure drops below the set point. Another pressure relieving device, which is less popular, and about which there is thus less knowledge and experience, is the rupture or bursting disc. This article is devoted to little known nuances with the use of rupture discs.

Types of rupture discs

Depending on the application, various types of rupture disc may be used. Care must be taken to ensure that the correct type has been installed, in order to avoid future problems.

- Normal unscored domed
- Forward acting scored
- Reverse acting scored
- Prebulged
- Composite

Discs may need to have a vacuum support if they may be subject to vacuum under any operating conditions (eg: start-up; commissioning) or if the outlet side pressure can exceed the inlet pressure temporarily at any time.

Discs may be of the fragmenting or non-fragmenting type. Discs used upstream of a relief valve, or those that discharge into

a closed system, may only be non-fragmenting. These discs must also be provided with a disc retention device. Fragmenting types should only be used where the disc vents directly to atmosphere with minimal outlet piping.

Discs may also be provided with a cutting assembly. However, these are not recommended to be used as they are not failsafe for the following reasons:

- A blunt cutter may not open the disc as intended. This is common for knifeblade disc assemblies in which the cutter is built into the top portion of the holder and is reused.
- They require higher overpressure to burst.
- A reverse acting cutter activated disc is very likely to fail open if slightly damaged.

Use of rupture discs

It must be stated that pressure relief should preferably be provided by means of pressure relief valves, due their reclosable nature. Replacing a bursting disc may entail a shutdown of the system. However, rupture discs may be the appropriate relief device for the following services:

- For relief of pressure that is rising too fast for normal pressure relief valves (ie: less than 10 milliseconds). Typical applications:
 - Reaction vessels
 - Shell and tube heat exchangers, in which the exchanger shell requires rapid overpressure protection against tube rupture
 - Powder silos for explosion protection
- In a service where the operation of a pressure relief valve may be affected by the following:
 - Corrosion
 - Corrosion products
 - Deposition of materials that may prevent a PRV from lifting
- In a fluid service which is highly toxic and where potential slight leakage through a PRV cannot be tolerated. In

this case it may be practical to install a rupture disc upstream of the PRV.

- For low set pressures, in which PRV's are prone to leak.
- In systems where a PRV would plug during normal operation (not discharging) or whilst relieving, such as:
 - Slurry systems
 - Chemically reactive systems
 - Extremely viscous fluid systems
- Where it is necessary to rapidly depressure to atmospheric pressure.

Miscellaneous Considerations

1. Rupture discs are susceptible to "creep" due to temperature variations, and this may be significant. A disc designed to operate at an elevated temperature may not give adequate protection at a lower temperature. It is therefore important to match operating temperature with burst temperature and with process temperature, especially where the disc is installed in an uninsulated section and the process temperature significantly exceeds ambient.
2. Rupture discs cannot be used in systems with a pulsating flow (eg: discharge of reciprocating pump).
3. The working pressure of rupture discs depends on their type, as follows:
 - a. Normal domed discs (unscored) may only be operated at a working pressure of up to 70% of the bursting pressure.
 - b. Forward acting scored discs may be operated at between 80-90% of bursting pressure. Safer to select the lower option.
 - c. Reverse acting scored discs may be operated at up to 90% of bursting pressure.
4. Where a rupture disc is used to shield a PRV, the following considerations apply:
 - a. A "telltale" device must be installed between the rupture disc and the PRV to identify disc leakage or failure. The telltales include:

- i. Pressure gauge
 - ii. Pressure transmitter
 - iii. An excess flow check valve
 - iv. An atmospheric vent
- b. The space between the rupture disc and the PRV must be vented to prevent slight leaks from the RD causing the PRV to open. This vent may need to be routed to a closed system. If not vented, this space could exert back pressure on the disc and cause it to only burst at twice the MAWP of the system it is installed in.
- c. The back pressure in any closed system must be considered for the same reason as in (b).
- d. The PRV set pressure must not exceed the minimum value of the disc range (normally -5% to +5% of the marked burst pressure).
5. The layout and installation design of the discs should ensure that they can be replaced conveniently and safely and without requiring a shutdown and system depressurising.
6. In some services (eg: slurry) it may be necessary to provide a small gas or liquid purge flow across the process side of the disc to prevent potential obstruction in front of the disc.
7. Inconel 600 alloy rupture discs can exhibit a strain aging phenomenon, whereby the burst pressure can increase over time in certain high temperature service. Such discs must be heat treated by the manufacturer to the maximum expected operating temperature of the RD.

Safety Alerts

Pipe rack off-loading fatality

A 24 year old man was struck and crushed by pipe racks which tumbled off a truck that was being unloaded at a drill site. the rig worker did not survive his injuries.

While the exact causes of the incident are still to be determined, this safety alert is a reminder to all operators, staff, their employees and contractors to take particular care when loading and unloading large heavy equipment from vehicles.

Safety issues that were identified

- Load restraint bollards were only in place on one side of the truck
- It appears pipe rack groups were separately tied down (i.e. upper and lower layers separately restrained) but the upper layer was not removed before restraints were removed from the lower layer of pipe racks.
- People were standing in the high risk area adjacent to vehicle

- There was a lack of risk assessment and use of standard operating procedures when unloading.

Recommendations

- Restraint bollards must be used wherever practical for transport of pipe racks and other long loads
- Appropriate exclusion zones must be put in place when loading and unloading
- Loading and unloading procedures must include requirements for the correct sequence of events and/or use of primary and secondary restraints
- Organisations must immediately review their
 - detailed risk assessments
 - standard operating procedures
 - job safety analyses
 - training and supervision requirements

to ensure that this type of task and associated risks are adequately covered.

Warning about energy saving bulbs

These types of bulbs which are called Energy Saving or low Energy bulbs, if broken, cause serious danger!

So much so, that if one breaks, everybody will have to leave the room for at least 15 minutes, because it contains Mercury (poisonous) which causes migraine, disorientation, imbalances and different other health problems, when inhaled.

It causes many people with allergies, severe skin conditions and other diseases just by touching this substance or inhaling it.

The debris of the broken bulb should not be cleaned with a vacuum cleaner, because it will spread the contamination to other rooms in the house when using the vacuum cleaner again.

It must be cleaned up with a normal broom or brush, be kept in a sealed bag and disposed of right away from the house in a bin for hazardous materials.

The person cleaning it should wear rubber gloves.

Do not inhale the dust while cleaning.

Notice: Mercury is dangerous, more poisonous than lead or arsenic!!!!



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Safety and the Risk Management Standards



BY LEIGHTON BENNETT
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South Africa has adopted two internationally accredited ISO Risk Management Standards during 2009 and 2010, but how does this impact on occupational safety?

King III requires companies to apply corporate governance measures which includes specific risk management requirements particularly having a risk based internal audit process for the identification and mitigations of risks to the company. This responsibility is focused at the company's board who are required to implement a risk management process that is to be applied on a day-to-day basis to manage the company's strategic and business processes.

Under OHSAct section 8, employers are required to identify potential threats and hazards to the health and safety of employees. By implication this has also to be managed on a day-by-day basis. The Construction Regulations specifically require the potential threats and hazards related to any construction work process or job to be identified and that safety measures need to be applied to eliminate or mitigate the risks to an acceptable level.

So where does this leave us??

The SANS 31000: 2009 Standard on "Risk Management - Principles and Guidelines" describes the risk management process as in Figure 1.

This process requires "Communication and Consultation" to take place with both the external and internal stakeholders during all stages of the risk management process.

By "Establishing the Context", the company should articulate its objectives,

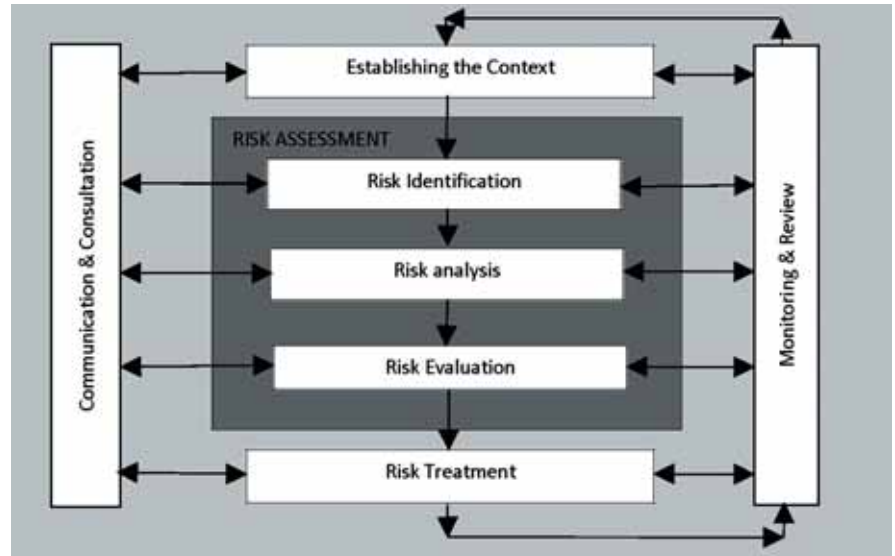


Figure 1. Risk Management Principles and Guidelines Process

defines the external and internal parameters to be taken into account when managing risk and sets the scope and risk criteria for the rest of the risk management process.

The Risk Assessment process has three stages, namely Risk Identification, Risk Analysis and Risk Evaluation. This risk assessment process should provide decision-makers and responsible parties with an improved understanding of risks that could affect the achievement of a company's objectives and the adequacy and effectiveness of the controls already in place. The risk assessment outcome also provides a basis for decisions about the most appropriate approach to be used to treat the risks.

Risk identification is the process of finding, recognising and recording risks, and identifying what might happen or what situations might exist that could disrupt the company's operations.

The SANS 31010:2010 Standard on "Risk Management - Risk Assessment Techniques" provides guidelines on risk assessment techniques, and it focuses on various methods of performing risk identification, analysis and evaluation methodologies. Some 30 different risk identification tools and techniques are outlined in the standard.

The risk identification methods used can include:

- (a) evidence based methods like checklists and historical reviews, or
- (b) systematic team approaches using structured sets of prompts or questions, like the PEPMELF acronym used in brainstorming risk identification, that is published in the Safety First Association's "Risk Assessment" booklet or
- (c) by inductive reasoning methods like using HAZOP, FMECA, or similar techniques.

Irrespective of the actual risk identification technique that is employed, it is important that due recognition is given to the human and operational factors when identifying risks.

Risk Analysis is about developing an understanding of the risk by determining the probability/likelihood, (optional: the exposures) and consequences for the identified risk event/s.

Risk magnitude scores can be calculated in various ways, as follows:

- Risk = Likelihood X Consequences
- or
- Risk = Likelihood X Exposure X Consequences, for example.

Where each risk score element can be categorised in numeric or alphabetical terms, where Very Low = 1, Low = 2, Medium = 3, High = 4, Very High = 5, for example.

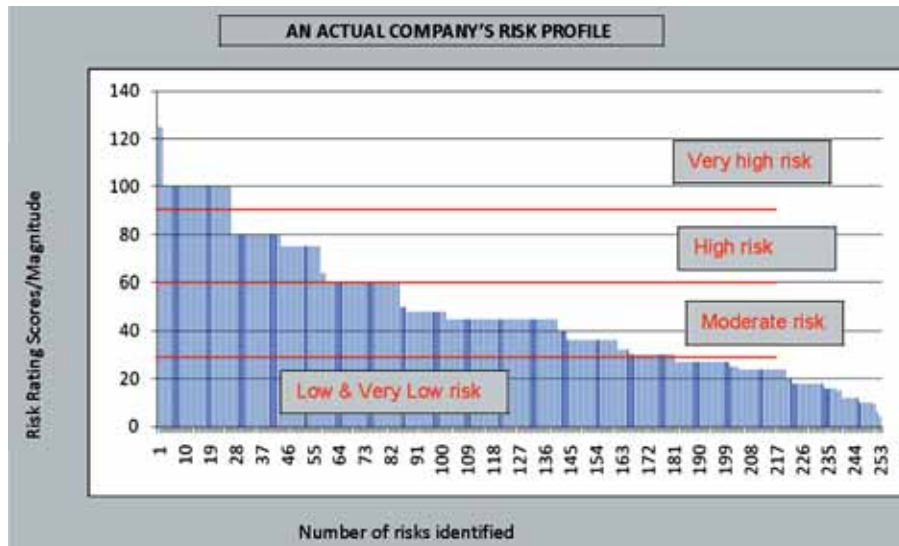


Figure 2. Risk profile

For each risk identified a scored risk analysis should be performed to determine each risk's magnitude and these magnitude scores are evaluated against the company's risk appetite, being the amount and type of risk the company is willing to pursue (accept) or retain.

Once the risk scores are established, Risk Evaluation is to be performed, where the estimated risk levels are compared with the risk criteria defined when the context was established, in order to determine the significance of the level and type of risk. The simplest framework for defining risk criteria is a single level which divides risks that need treatment from those which do not.

Where the risk magnitude score is above the company's risk appetite level, "Risk Treatment" needs to be applied to reduce the risk to an acceptable risk level. From a safety perspective this risk treatment stage is referred to as the 4Ts risk mitigation process, namely the decision to Tolerate, Terminate, Transfer or to Treat the risks applies.

The risk profile, in Figure 2, is a histogram representation of all the risk scores in ranked magnitude order. As a priority, all the risks with a score above 90 need urgent risk treatment, however the company's risk appetite may only be established and decided to be a rating score of 60, so some 56 risks need to be risk treated to reduce these high magnitude risks to below the company's accepted 60 magnitude level.

From safety literature, a commonly used form of risk treatment is by applying an engineering, an administration or a personal protective equipment risk mitigation process, but the 8Es risk

treatment approach provides a wider range of potential risk treatment measures to manage, reduce and eliminate different risks, namely:

- Establishing a further risk assessment (eg. an issue-based risk assessment on high magnitude risks)
- Evaluating procedures (practices and
- Engineering redesign or improvements
- Education and training (induction and job instruction)
- Employment practices (selection, placement and retraining)
- Example setting (leadership and motivation)
- Enthusiasm (encouragement, acknowledgement, motivation)
- Enforcement (from a warning to counselling then discipline)

Any remaining high magnitude residual risks after applying risk treatment may be further risk treated by transferring the risk to an insurer or being outsourced to a 3rd party. The risk magnitudes that cannot be reduced to an acceptable level of risk need to be terminated or avoided by stopping the risk causing operation or activity altogether.

As many risks are dynamic in nature and can change or vary over time or during their life-cycle, so it is necessary to "Monitor and Review" all the risk management process steps on an ongoing basis to ensure that any new or changing risk is suitably risk controlled or have

its risk treatment controls up-dated to deal with the risk changes.

The risk management process is a universal management approach which lends itself to be applied in the occupational health and safety discipline, each company's operations can be considered like a grain silo, where each discipline in a company is one of the silos. Risk management is the conveyor feeding across all the disciplines of the company, giving rise to applying the risk management process on an Enterprise-Wide Risk Management basis, as illustrated in Figure 3.

The SANS "Risk Management Principles and Guidelines" standard provides a simple and very effective risk assessment process, which can be applied to enhance the normal occupational safety management methods and also meet the King III corporate governance requirements.

With risk assessments being performed at group, company, project or process baseline levels, the risks identified and assessed provide suitable decision-making information which can be used to reduce incident occurrence potential by using the identified risks information to develop management controls at the Lack of Controls domino of the Incident Causation Model sequence of dominoes. Consequently proper risk assessment can play a vital role in developing strategies and controls to avoid incident occurrences.

These two SANS Risk Management standards, hopefully will bring more standardisation into performing risk assessments in the occupational health and safety fields and also will promote a reduction of incidents by facilitating correct risks identification, analysis and evaluation such that appropriate risk treatment measures are implemented, monitored and revised on an ongoing basis to ensure the dynamic risks are suitably managed.



Management Principles and Guidelines" standard provides a simple and very effective risk assessment

Figure 3

Personal Protective Equipment -

Part 2 - Hand Protection



DR. BILL POMFRET, MANAGING CONSULTANT, SAFETY PROJECTS INTERNATIONAL, CANADA SPECIALISES IN AUDITING AND EVALUATING BOTH CLIENT AND CONTRACTOR SAFETY PROGRAMMES AND IN DEVELOPING WITH THEM PRO-ACTIVE PREVENTATIVE SYSTEMS PROCEDURES AND PROGRAMMES TO CONTROL ALL DOWNGRADING INCIDENTS INVOLVING PEOPLE, EQUIPMENT, MATERIALS AND THE ENVIRONMENT.

Since hands are such a great part of the activity of a workplace, it should come as no surprise that a large percentage (about 20%, or 1 out of 5) of all accidents at work involve the hands. Apart from cuts and bruises, other injuries result from the effects of heat and cold, splinters and chemicals, as well as injuries from repetitive movements.

The best way to prevent hand injuries is to monitor controls.

Potential hazards to workers must be a prime consideration when procuring machinery and materials and/or introducing new processes. There should be a minimum of contact between workers and harmful materials.

Procedures should be ergonomically designed to reduce the chance of an injury, from the cumulative effects of repeated movements.

If gloves are necessary, it is important to select the kind that matches the requirements of the job. The diversity of products now on the market does not always make this easy. Knowledgeable help is required - particularly when selecting hand protection for working with chemicals. In addition to in-house sources, advice can be obtained from safety and industry associations and health and safety departments in other similar occupational fields.

Test the manufacturer's samples of gloves under job conditions

In addition to guidance, a knowledgeable supplier should provide several samples of gloves for you to test under different job conditions. Before selecting a type of glove, check the sample's resistance to cuts, tears, punctures, temperature and abrasion. Test its permeability to any chemicals that will be handled. (Manufacturer's permeability measurement methods vary

and therefore should not be used as the sole criterion).

Rubber and synthetic gloves can be tested for leaks by inflating them. After handling chemicals they should be washed as soon as possible. This will add to their life and reduce the chance of chemicals seeping through.

Some experts advise that chemical-protective gloves be discarded after each use, since scrubbing may not remove all contamination. Gloves that have come into contact with toxic or corrosive liquids (see caution below) should definitely not be re-used.

To keep gloves clean, usable and puncture-free as long as possible, they should not be turned inside out. Nor should cuffs be left turned down. They should be stored in a cool, dark place.

CAUTION

It should be remembered that some hazards cannot be rendered safe by the use of gloves. Gloves can increase the risk of injury when using moving

Selecting speciality work gloves

HAZARD	GLOVE CHARACTERISTICS
Electricity	Linesman's glove; resists electricity and punctures; flexible; worn under leather glove.
Knives, sharp tools	Metal mesh; knitted agamid fibre with stainless steel core
Extreme heat	Gloves with aluminized coatings; synthetics such as Kevlar, Nomex; asbestos and coated asbestos (now rare)
Extreme cold	Heated gloves, gloves and mittens lined with foam, fleece, fur and other insulation.
Radiation Contamination	Lead-lined gloves, dry box gloves, disposable gloves

machinery -- drills, grinders and saws. There are also chemicals for which there may be no safe level of contact. In these cases, manufacturers recommend gloves only for "splash protection" and caution users of the need to inspect them carefully and often.

Are the length, type of cuff, extent of coating and insulation sufficient? Can the colours it comes in be used to help identify the glove's function? Check how comfortable the glove is, how much dexterity it permits, its flexibility and how well it allows an object to be gripped and manipulated. (The kind of finish - rough, smooth, wrinkled, embossed, and so on - will affect the user's grip.)

A thin-gauge, unsupported glove generally allows greater dexterity and tactile sensitivity, while a heavier gauge, unsupported style provides greater protection and better wear. A flock-lined unsupported glove offers extra comfort, insulation and wear.

Greater resistance to cuts, snags, puncture and abrasion is provided by a supported or cut-and-sewn glove. Amongst cloth gloves, woven cloth usually means superior resistance to abrasion, while knitted cloth means better protection against cuts.

Evaluate the gloves in light of the features important in the particular job and compare with the features offered by other gloves. If several kinds of gloves suit the purpose, the user should be offered a choice. Both the performance of the glove in actual use and the satisfaction of the user should be monitored.

Sizing and fit

The user should ensure the glove fits properly, affording comfort and dexterity. A glove which is too tight can lead to fatigue and reduced protection. It will also wear out faster than a glove that is too loose. Dexterity will be reduced and the chance of accidental injury increased.

Gloves should overlap the sleeve of the wearer's shirt or coat. No skin of the arm, etc. should be exposed. Very long cuffs can often be folded back or tucked under the sleeve to prevent liquids from running down the arm.

Storage and maintenance

Work gloves should be used only for their intended purpose, as described in the manufacturer's instructions. They should be inspected before use and, if damaged, repaired or replaced.

Hygiene

Apart from gloves, hand protection can be provided by good hygiene, in some occupations, i.e. by washing hands frequently and, in certain cases by showering before leaving work. When soap and water will not suffice there are many skin cleaning agents on the market, some that do not require a source of running water. Select an efficient but gentle cleanser. Barrier creams can also be effective. Seek the advice of a dermatologist on skin cleaners and barrier creams and follow the directions for use.



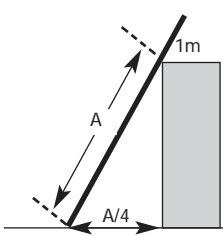
Picture thanks to Vanguard Fire & Safety

HAND PROTECTION GLOVE MATERIALS AND THEIR CHARACTERISTICS

Glove type	Characteristics	Applications
Leather	Resist chips, sparks, abrasion, blows; short-term protection from heat, cold; comfortable; expensive; usually less-suited for wet or fine work.	Heavy work, welding, grinding; coated, staples or rivets for hot work; lined for cold work.
Chrome Leather	Protection from heat; can be treated for even better heat resistance.	
Rubber (natural)	Elastic, flexible, even in cold; good touch sensitivity; weakened by many oils, fats, oil-based solvents.	Used alone or as a coating
Neoprene	Resists many substances; resists breakage but tears fairly easily; good touch sensitivity.	
Nitrile	Resists many chemicals; resists abrasions and tearing; may not be flexible.	
Butyl rubber	Very resistant to corrosive acids, gases; not recommended for many solvents; low physical strength; expensive.	
Viton	Resistant to solvents; resistant to toxic penetrating chemicals (benzene, PCBs); very expensive.	
Polyvinyl Chloride (PVC)	Waterproof and resistant to many chemicals, depending on thickness; poor resistance to petroleum products; durable, abrasion-resistant. Relatively low-priced; suitable for high temperatures but brittle in extreme cold; poor touch sensitivity.	Not for applications where static electricity is a problem
Polyvinyl Alcohol (PVA)	Resistant to all known solvents except water; very durable, expensive.	Good visibility in fluorescent colours
Cotton	Comfortable; warm in winter, cool in summer; not resistant to moisture, oil, chemicals.	Available in many forms for variety of applications; terry cloth, canvas rubberized etc.
Wool	Comfortable; warm in winter, cool in summer; can be treated for better fire resistance; not resistant to moisture, oil or chemicals.	

DO-KNOW SAFE WORKING PROCEDURE (& PJO)

The Do-Know SWP sheet concept permits employees to be trained on the desired safe working procedure and allows for supervision to perform Continuous Risk Assessments in the form of a Planned Job Observations using the same Do-Know SWP form.

Job/ Task/ Procedure Title: Using ladders - straight and extension		Employee(s) names			Date
Overall objective: Providing information on the correct inspection handling and use of "A" frame type stepladders		Evaluated by		Revision Date	
The steps	DO (How is it done: preparing, performing, finishing)	DO PJO: y/n	KNOW (What knowledge is required: technical, SHEQ?)	KNOW PJO: y/n	COMMENTS
1.	Decide if a straight or extension ladder would be the most suitable access aid to performing the job required. Select a ladder of suitable length. No ladder longer than 9m is permitted to be used		Know the ladder limitations related to access height, a level and stable working surface is required, not using the top step and ladder inspection requirements. Never "tie" any ladders together		
2.	Inspect the ladder for defects before use. Have 2 people carry a long ladder to the job site. <i>NOTE: Metal or aluminium type ladders conduct electricity so an electrical contact risk should be avoided by using a wooded or fibreglass type constructed ladder.</i>		Ladder rungs, stiles undamaged, not loose or bent, safety feet condition and extension locking devices functioning. No timber members cracked or painted and no nails used.		
3.	Ensure the ground/ working surface is suitable level and has a bearing capacity to carry the intended loads.		The ground needs to be level and firm enough that loaded ladder legs will not penetrate into the ground or similar surface. If the ground is soft cover the ground with timber boarding of a strength to increase the load pressure area without bending		
4.	Extend the extension ladder to the desired length and lock the extension locking devices if there is no extension rope or raise the ladder with help of others and then use the extension rope to extend the ladder to the required safe length.		The extension ladder with an extension rope can be extended after being erected. Two or more people are often necessary to raise a long or an extension ladder.		
5.	Raise the ladder &/or extension ladder to the required height, with the ladder base ¼ times the ladder's ground to its contact point distance (A) away from the contact point vertical or wall & with 1m extending above any step off access level.		 <p>Know that the wrong ladder angle will impact on the ladder's stability in terms of it possibly toppling over or the base slipping out.</p>		
6.	Get some one to hold the ladder if the ladder is considered unsteady, or get someone to hold the ladder while it is suitably lashed to improve its stability.		Know that a ladder's stability can be improved by holding the ladder or lashing it to a solid structure, stakes driven into the ground, etc. Only climb the ladder when it is properly erected & is stable.		
7.	Place a barrier tape or other barriers to keep people away from the ladder's base where items could fall or be dropped from height. Obtain something to safely carry tools, etc while at height		Falling or dropped items can injure others in the vicinity of ladder being used. Have something to carry tools while working at height (eg. like a tool belt, bag or bucket raised on a rope, etc)		

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Overall objective: Providing information on the correct inspection handling and use of "A" frame type stepladders		Evaluated by		Revision Date	
The steps	DO (How is it done: preparing, performing, finishing)	DO PJO: y/n	KNOW (What knowledge is required: technical, SHEQ?)	KNOW PJO: y/n	COMMENTS
8.	Check the ladder is stable before climbing it using both hands for support.		Climbing while holding with both hands, prevents potential falls from the ladder.		
9.	Only one person is permitted to climb the ladder at a time		A ladder has a load design capacity, which for average use is about 100kg, so the ladder will fail and collapse if overloaded with 2 people		
10.	Should the ladder become unstable or wobbly, climb off the ladder and reset the ladder stability		A ladder, which is unstable, has the potential of toppling over and injuring one.		
11.	Climb off the ladder and move it to a new access location rather than stretching and unstablising the ladder. Check that the ladder is stable before using it, again		A belt buckle being worn should never extend up to the ladder stile while stretching sideways from a ladder. Again use help to move or to re-erect the ladder		
12.	If the ladder is being used for high level access, (eg to a platform, roof, etc) the ladder must extend 1m beyond the access level to provide a safe hand hold when climbing off or onto the ladder		Extending the ladder 1m above the access level provides a hand hold to permit a safe and body balancing climbing off and onto the ladder at height		
13.	When the work is completed get help to take down the ladder without dropping or letting it fall down.		The ladder should no be dropped as the ladder could become damaged through the fall		
14.	Lie the ladder down or prop it against a stable structure.		Place the folded ladder to avoid it falling over causing possible injuries &/or damage		
15.	If the ladder has been damaged, report it to the supervision, so it can be marked "unsafe - do not use" & be sent for repairs or be replaced as required.		Not reporting ladder damage could place another ladder user if the defects are not labelled or the ladder is not repaired or replaced.		
16.	On job completion return the ladder to its proper storage place		This improves housekeeping, reduces possible ladder damage & saves time look for a ladder again		
SIGN off	Employee Competent Yes or No	Evaluator signature		Employee signature	
				Date	



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A somewhat sticky situation



BARBARA CAMPBELL WAS SECRETARY OF THE SAFETY FIRST ASSOCIATION FOR ABOUT FORTY YEARS BEFORE RETIRING TO CAPE TOWN.

IN THIS SERIES OF ARTICLES, SHE REMINISCES ABOUT HER DAYS WITH THE ASSOCIATION

In the July/August 2010 issue of National Safety, I wrote about one of the great highlights during my time with the Association, when I accompanied the Johannesburg Traffic Officer in a helicopter flight over the city to monitor the early morning traffic.

In an effort to recall what could be termed another 'high', I decided that this time it would be a good idea to keep things on a more mundane level. Having made this decision, the subject of sweets came to mind. This reminded me of an episode that took place many years ago when we lived in Port Elizabeth. At that time my youngest son attended a nearby nursery school. In order to keep the children happy, the teacher had the bright idea of arranging a visit to a local sweet factory. She asked if some of the mothers would provide transport and accompany her. Who could refuse? The following week I found myself driving along in my mini with my son and three other excited little boys.

We met up with the rest of our party outside the sweet factory and were ushered into the building by a supervisor who was eager to explain the various processes which were being carried out. Unfortunately, it was all rather lost on our small charges as the activity was taking place on work benches way above their heads.

Things were getting a trifle boring for the children. One chubby little fellow was intent on seeing what was happening. As he walked on tip toes with his head craned upwards, he managed to fall straight into a large tray containing a toffee like substance which was on the floor directly in front of him. It was my 'happy' task to extract him from this sticky mess. I tried as best I could to clean him up using a packet of tissues, which I was fortunately carrying. From then on he walked bow legged trying to

keep his legs from sticking together. This was much to the delight of all the other youngsters. It certainly brightened things up a lot and made their day which improved even more when everyone was given a packet of chocolate pieces as well as other sweets.

As soon as we left the factory, without a word, each child sat down on the steps of the building and proceeded to munch his or her way through the contents of their packets. I was getting a little worried about how my upholstered Mini seats would fare after four pairs of sticky little hands had done their worst.

I must admit that I was mighty glad to offload my cargo at the nursery school where nursemaids and fond mamas were waiting to pick up their little darlings.

I will never know how many were able to eat lunch that day! By that time I didn't care.

Readers may wonder why I am writing about this episode for publication in National Safety.

The message is obvious:

ALWAYS KEEP WALKWAYS CLEAR OF OBSTRUCTIONS.

Ignore this rule and you too could land up in a sticky situation. Remember that the bigger you are the harder you fall!



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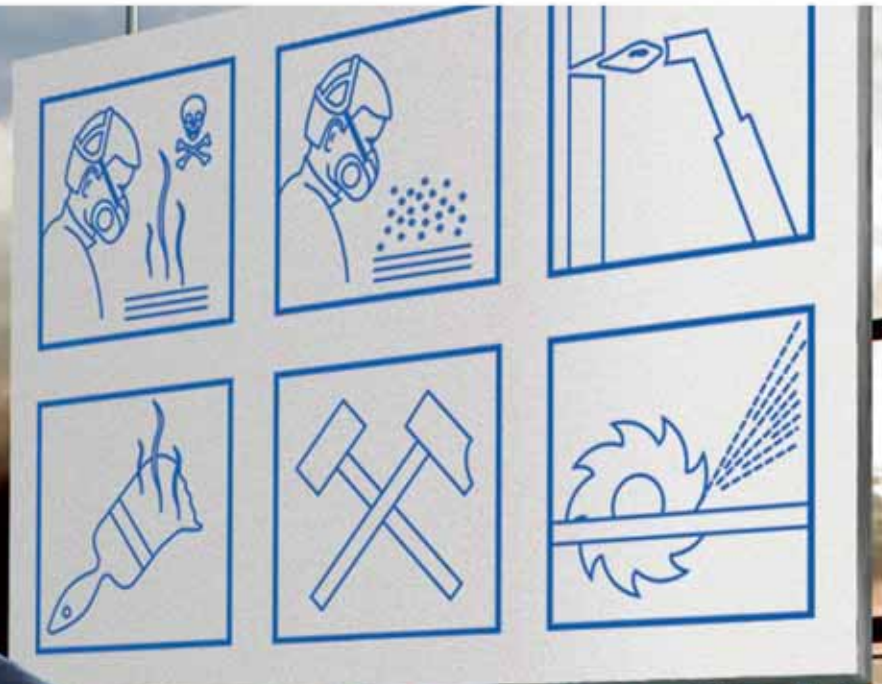
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