



### WE PROVIDE A NUMBER OF DIFFERENT SERVICES TO ASSIST OUR CLIENTS THAT INCLUDE:

- EHS Risk Assessments
- Occupational Hygiene Surveys
- Ergonomics Surveys
- EHS Management
- System development and implementation
- Environmental Monitoring
- Identification of EHS Legal Requirements and Compliance Audits
- Construction EHS Services
- Construction H&S Files
- Internal Auditor Training
- General EHS Training



HW592A1000508



OH0049



DoL Approved Inspection Authority (OH0049-CI-09)

Newsletter compiled by  
Lee Rands

### ISSUES OF THE HEART

#### Pacemakers and Electromagnetic Field Safety

The most common types of AIMD's (Active Implantable Medical Devices) are pacemakers and defibrillators. An AIMD is a medical device which is intended to be totally or partially introduced, surgically or medically, into the human body, and which is intended to remain after the procedure. External sources, either within or outside the workplace, may interfere with the appropriate function of pacemakers or neural stimulators. The presence of Electromagnetic Interference (EMI) is often substantially higher in a work setting than it is at home or other life settings. EMI generated by industrial equipment may be of greater strength and duration, causing potentially greater risks. While rare, EMI can trigger a medical device to revert to safe mode or have memory corruption. The impact that it has on a medical device is usually only temporary and may be corrected by either moving away from, or shutting down, the source of the EMI.

Certain motors and welding processes emit frequencies that could damage/interfere with medical electronic devices. Areas to be tested can include: welding robot cells, pump houses, compressor rooms, substations and cell phone towers. **SAFETECH can conduct a survey to identify areas where EMI could be a hazard.**



#### HAZARDOUS CHEMICAL - BENZENE

**Benzene** is a component of products derived from coal and petroleum. It is used in the manufacture of plastics, detergents, pesticides and other chemicals. With exposures from less than five years to more than 30 years, individuals have developed, and died from, leukemia. Long-term exposure may affect bone marrow and blood production. Short-term exposure to high levels of benzene can cause drowsiness, dizziness, unconsciousness and death.

## training

### Public Course Calendar Port Elizabeth



#### JULY

- 25<sup>th</sup> ISO 14001:2015 Awareness (Transition)
- 30<sup>th</sup> – 1<sup>st</sup> Aug ISO 14001:2015 Implementation

#### AUGUST

- 2<sup>nd</sup> – 3<sup>rd</sup> ISO 14001:2015 Internal Auditing
- 22<sup>nd</sup> Construction Regulations
- 27<sup>th</sup> – 29<sup>th</sup> ISO 14001 & 45001 Implementation (combined)
- 30<sup>th</sup> – 31<sup>st</sup> ISO 14001 & 45001 Internal Auditing (combined)
- 31<sup>st</sup> Introduction to Environmental Legislation

#### SEPTEMBER

- 10<sup>th</sup> SHE Reps (Refresher)
- 14<sup>th</sup> Fire Prevention
- 25<sup>th</sup> – 27<sup>th</sup> SHE Reps
- 28<sup>th</sup> Hazardous Chemical Substances Regulation

#### OCTOBER

- 4<sup>th</sup> – 5<sup>th</sup> Incident Investigation
- 16<sup>th</sup> – 18<sup>th</sup> Basic Principles in Occupational Hygiene
- 26<sup>th</sup> Introduction to the OHS Act

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# SAFETECH

ENVIRONMENT  
HEALTH  
SAFETY





# In Touch

## EHS Newsletter July 2018

### MOULD EXPOSURE

Mould is fungi – and can be found both indoors and outdoors. The terms fungi and mould are often used together, but mould is actually a type of fungi. Along with an increased concern over indoor exposure to mould, public awareness of the adverse health effects has also grown. There are many thousands of species of mould and most mould found indoors, comes from outdoor sources. Its growth is encouraged by warm and humid conditions and seems likely to become a problem only when there is water damage, high humidity, or dampness.

Mould produces and releases millions of spores small enough to be air, water or insect-borne. It can also produce toxic agents known as mycotoxins. Spores and mycotoxins can have negative effects on human health. People affected by mould exposure may have a wide variety of reactions. Those at greatest risk are individuals with allergies, asthma, sinusitis or other respiratory conditions. Others at risk are infants and children, elderly people, pregnant women and individuals with a weakened immune system.

Ventilation systems should be checked regularly, particularly for damp filters and overall cleanliness. A preventive maintenance plan should be put into place for each major component of the building's ventilation system. Components that are exposed to water (e.g. drainage pans, coils, cooling towers and humidifiers) require scrupulous maintenance to prevent microbial growth and the entry of undesired microorganisms or chemicals into the indoor air stream.

[https://www.osha.gov/Publications/preventing\\_mold.pdf](https://www.osha.gov/Publications/preventing_mold.pdf)



### HAZARDOUS CHEMICAL INSTRUCTION

A Hazcom instruction is an important tool in conveying risk information to employees. It should be simple in layout, contain easy-to-understand language, describe the workplace operation and be signed by the user. Hazcom instructions can also take the form of pictograms to illustrate good work practices.

**A Hazcom Instruction should include, as a minimum, the following information:**

- ▲ Name (Substance Identification)
- ▲ Hazard Identification
- ▲ Safety Measures and Safe-Handling Procedures
- ▲ First Aid Procedures
- ▲ Accidental Release Measures
- ▲ Appropriate Methods of Disposal



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Refer to [www.sanas.co.za](http://www.sanas.co.za)  
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## PROFESSIONAL DEVELOPMENT 3 TECHNICAL WORKSHOPS

Presented by Dr Brett Williams

**Book TWO or more Workshops and receive a 10% discount!**



26<sup>th</sup> July 2018

**Hazardous Chemical Substances**  
How to Interpret your AIA Chemical  
Monitoring Report

#### Discussion Points:

- Overview of the Regulations, including Table 1, 2 & 3 Substances
- Basic requirements of sampling, using OESM
- How chemicals are measured
- The importance of an HCS Risk Assessment
- Interpreting results of the HCS survey
- How to complete the Silica Monitoring Return Form

R1500  
excl  
VAT

7<sup>th</sup> August 2018

**ISO 45001:2018 Workshop**  
Converting from OHSAS 18001

ISO 45001:2018 is the replacement for OHSAS 18001 and is now the International Standard for Occupational Health and Safety Management Systems (OHSMS). Dr Brett Williams is on the Technical Committee (TC283) for the development of ISO 45001 and it will be beneficial to receive insight from him on the inner workings of the Committee and the Standard.

R1500  
excl  
VAT

21<sup>st</sup> August 2018

**Local Exhaust Ventilation**  
Design principles to ensure your  
supplier is properly informed when  
developing purchasing specifications

#### Discussion Points:

- Dilution Ventilation vs Extraction vs General Ventilation
- ASHRAE Standard 110:2016 / ACGIH – Manual of Design
- Do's and Don'ts of Hood Design & Ducting
- Practical exercise to determine fan size

R1500  
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