

In Touch

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
- Internal Auditor Training
- General EHS Training



HW592A1000508



OH0049



DoL Approved Inspection Authority (OH0049-CI-09)

Newsletter compiled by Lee Rands

Laser

Class 3B or 4 Lasers require the following:



- License from the Department of Health
- Annual Audits
- Training for the Laser Safety Officer, Operators and Maintenance Personnel

It may also be necessary to conduct air monitoring, to measure employee exposure to hazardous chemical substances emitted as a result of decomposition of by-products during the laser process.

Contact Safetech for assistance with audits, training or air monitoring.

HUMAN HEALTH DANGERS OF BIRD DROPPINGS



The most serious health risks arise from organisms that can grow in the nutrient-rich accumulations of bird droppings, feathers and debris.

Quantifying a human's risk of acquiring disease from a bird or its droppings is difficult since exposure to

the pathogens does not always result in disease. However, bird droppings harbour numerous human pathogens that can cause diseases such as **Psittacosis, Histoplasmosis, Cryptococcosis and Salmonellosis.**

Exposure to pigeon faeces and other organic matter such as feathers, carcasses and nesting material from the HVAC system may pose a considerable health threat to people who come in contact with them or inhale the airborne particles from them.

<http://pureaircontrols.com/human-health-dangers-bird-droppings-associated-building-hvac-systems/>

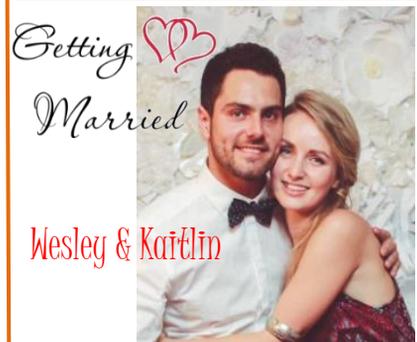
From the Safetech Family



Our Clients are an integral part of the success we have achieved this year. We value your trust and confidence in Safetech and sincerely appreciate your loyalty to our business.

We would like to take this opportunity to wish you a blessed Christmas and a prosperous New Year.

Our offices will be closed from Thursday, 15th December and will re-open Tuesday, 10th January 2017.



Kaitlin Burger will soon become **Mrs van Rooyen.** We wish her and Wesley love, joy and blessings as they begin their new life together.



Public Courses – Port Elizabeth FEBRUARY 2017

- 6th & 7th Incident Investigation **
- 10th SHE Reps Refresher
- 17th Fire Prevention
- 24th Introduction to the OHS Act (with copy of OHS Act)
- 27th & 28th HIRA *



* HWSETA Accredited
** Unit Standard Aligned

Safetrain cc t/a Safetech is a SANAS Accredited Inspection Body, Nr. OH 0049. Refer to www.sanas.co.za for Directory Accredited Facilities, Inspection Bodies for schedule of accreditation.



**ENVIRONMENT
HEALTH
SAFETY**

Safe Management of Industrial Boilers

Historically, steam systems have provided the most effective source of readily conveyable heat to industrial process applications and there is no similar low-cost substitute that can replace steam. Without steam, industrial production would be dramatically curtailed, and the low-cost manufactured products that are made from steam's heat or power generation assistance would not exist. Without steam, our quality of life, economies and society in general would suffer.

While many workers may appreciate that steam systems are a necessity, they may also have experienced negative steam-related incidents that resulted in safety issues, equipment failures and unscheduled shutdowns of units or full production lines. Safety events are extremely challenging if someone is injured and the resulting shutdowns can be disruptive to the entire workforce.

What can go wrong in a steam system?

- Water hammer (pressure surge or wave caused when a fluid (usually a liquid) in motion is forced to stop or change direction suddenly)
- Erosion damage
- Steam leaks in utility systems or equipment

Any of the above may render critical process equipment, e.g. turbines, flares or heat exchangers, unusable. Additionally, high return-system backpressure caused by steam leakage or blow-through, from bypass steam, might restrict production quantity or quality through heat-exchange equipment.

The challenge is to identify the sources of incidents. The answer may lie in understanding that the cause for a large percentage of failures might be due to the steam system not being maintained to the "as-built" or "design" specification - where the plant requirements were analysed and the most suitable design was determined. Once built, the plant was handed over to the end user for operation and maintenance — with the expectation of sustaining the initial design.

However, a change in the process or system could result in a change in the amount of steam that is required. This in turn affects the boiler operation, which may differ greatly from the original design specification.

If a boiler is not operated within its design limits, it increases the risks of fatigue, stress and corrosion, which could eventually lead to leaks, ruptures and, in extreme cases, explosions. Similarly with feed water, incorrect water treatment can lead to scaling, which will again damage the boiler and could lead to premature or catastrophic failure.



<http://www.hse.gov.uk/pubns/indg436.pdf>

Changes and Modifications

A change includes anything that has the potential to significantly change any risks from the boiler, e.g.

- any physical change to the boiler, or one of its components (such as water supply);
- a change in competence of the operator or maintenance staff;
- a change in the supervision or monitoring arrangements;
- a change in the environment in which the boiler is operating.

You must notify a competent person (individual or organisation that has sufficient practical and theoretical knowledge as well as experience of the actual systems involved) of any such changes, so that they can determine whether the written scheme of examination is suitable or needs to be modified.

<http://www.hse.gov.uk/pubns/indg436.pdf>

Refer to
www.sanas.co.za
for Schedule of
Accreditation

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