



# Training to Improve Standards

**Mr Stan Atkins**

**Executive Director**

**BICSc**

# Why Should We Invest in Staff Training?

Question:

“Suppose we train our staff and they leave us, isn't it a just waste of money?”

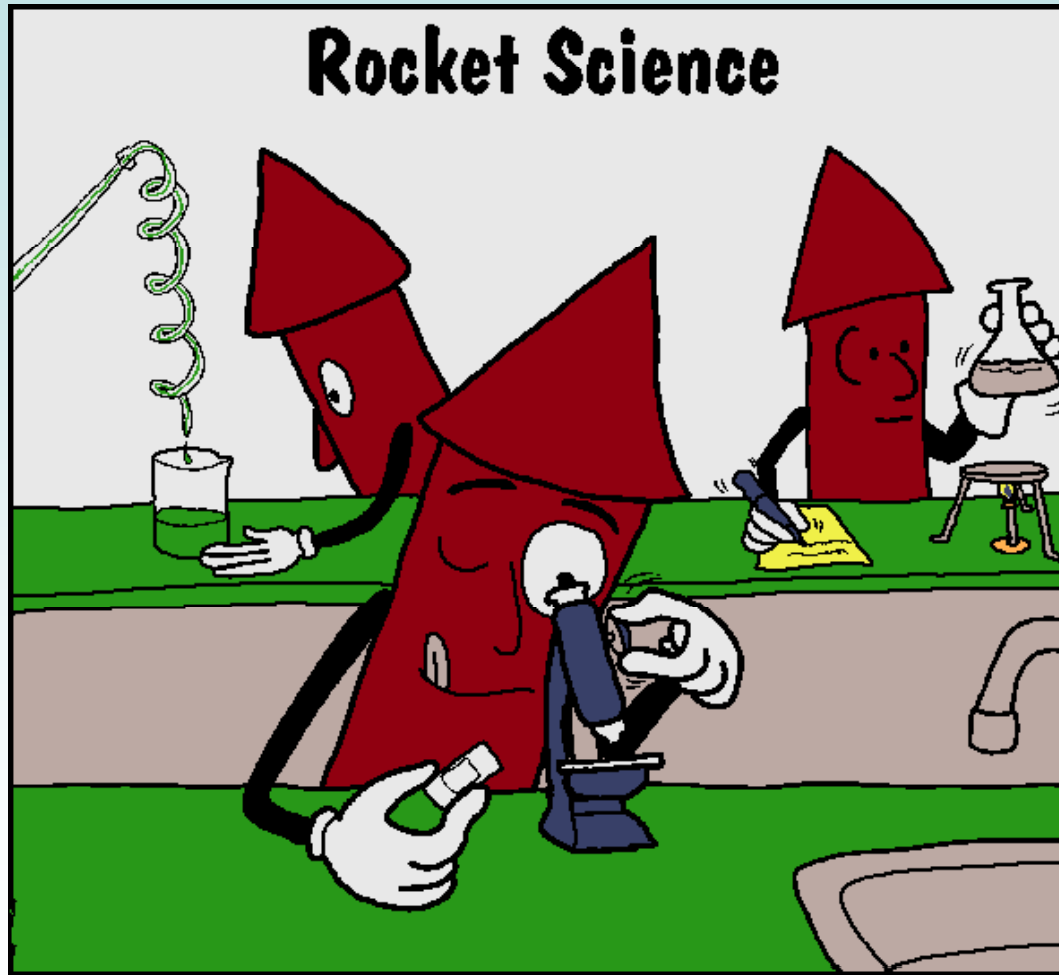
My Answer is:

“Suppose you don't train your staff and they stay with you?”

# What Benefits in Staff Training?

- The achievement of a nationally recognised qualification
- Trained to the standard required by BICSc
- A greater understanding, awareness & confidence in skills undertaken
- Improve sanitary cleaning standards
- Benefit from cost effective training and assessment
- Motivate and give recognition to those directly engaged on sanitary cleaning tasks

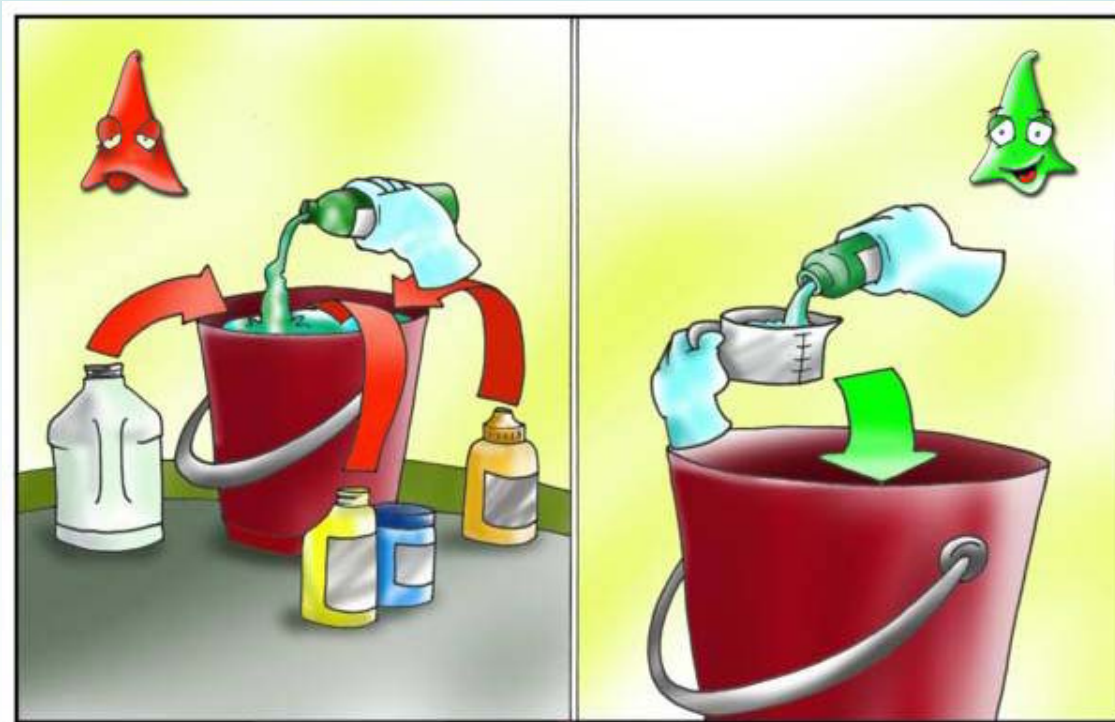
# Cleaning – Not Rocket Science



**But it's not no science!**

# Never Mix Chemicals !

Toxic fumes can be omitted when one chemical reacts with another causing breathing difficulties



# Cleaning Science

The main compound in chlorine bleach is “sodium hypochlorite (NaOCl)

This compound becomes hypochlorous acid (HOCl) by hydrolysis (Reaction with Water):



Gaseous chlorine is generated when hypochlorous acid is mixed with hydrochloric acid. Hydrochloric acid is used in toilet cleaner:



Gaseous chlorine decays the skin and eyes. Furthermore, there is even risk of death at high concentrations.

## Exactly why should you not mix ammonia and bleach?

In a nutshell: the combination produces corrosive substances in your airways that cause your lungs to fill with fluid.

In other words – **YOU DROWN**.

Bleach is usually about 5% sodium hypochlorite ( $\text{NaOCl}$ ). When mixed with ammonia ( $\text{NH}_3$ ), mono- & di-chloramines are formed:  $\text{NH}_2\text{Cl}$  &  $\text{NH}_2\text{Cl}_2$ . These cause respiratory tract irritation, tearing, and nausea.

Worse, these compounds decompose in water to form ammonia gas (nasty in itself) and hypochlorous acid. This in the presence of water forms hydrochloric acid and nascent (monatomic) oxygen, which are highly reactive and can lead to **pulmonary edema** & **pneumonia**.

Don't mix bleach with phosphate-based cleaners, either: that releases chlorine gas (quite nasty), which in water also produces hydrochloric and hypochlorous acids.



# True account of what can happen

A Dutch man blew up his flat by over cleaning the bathroom.

The man used several cleaning products to clean the bath, shower and toilet at his home in Almere.

Within minutes of finishing and settling down in his lounge, he heard an explosion caused by the reaction between the various chemicals he had used.

Police say the man was unhurt but all the windows were smashed and his walls are likely to collapse

# POINTS FOR ASSESSMENT:

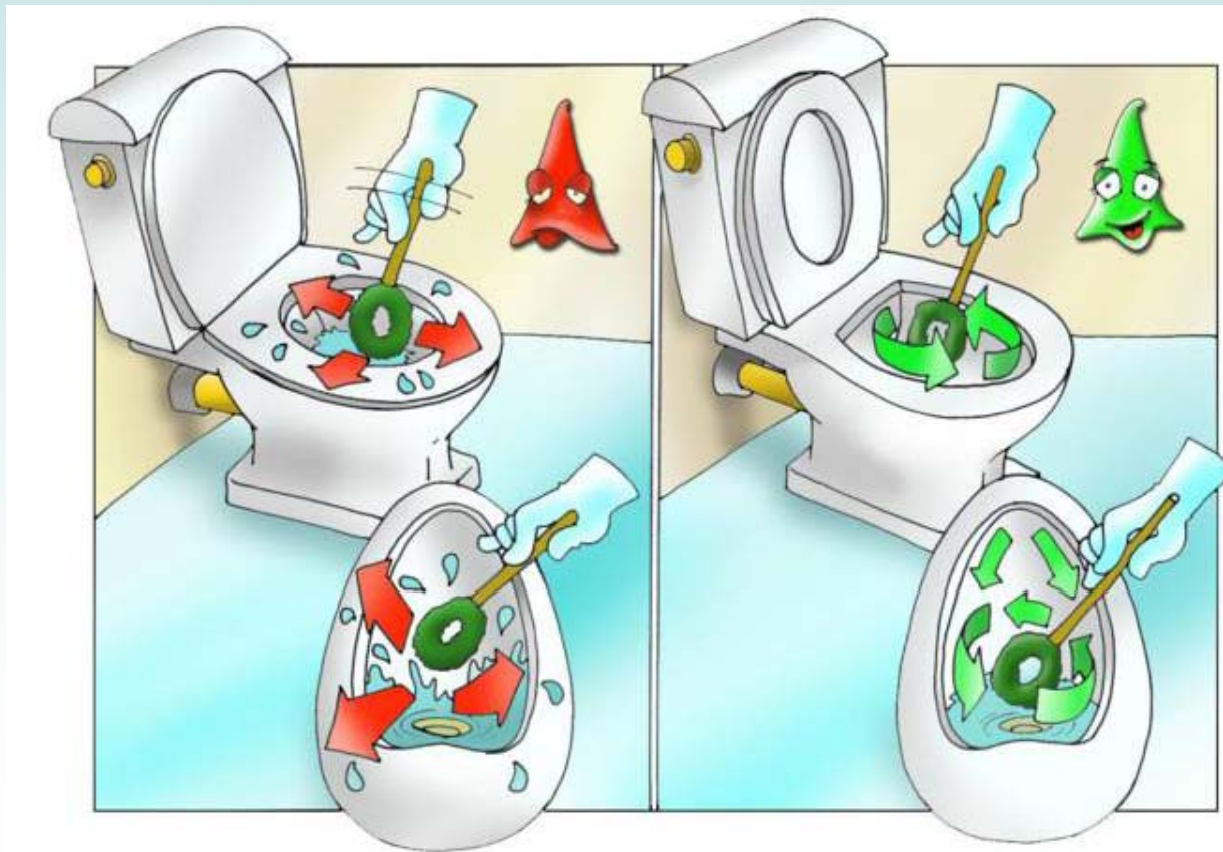
## Task Code: BTA. 2.

Task: Body Fluid Spillages and Contaminated Items

1. ! Did the candidate wash their hands at the start of the task?
2. Was the spillage or items identified?
3. ! Was the correct equipment selected, checked and safely assembled?
4. ! Were warnings signs used and sighted correctly?
5. ! Was the required personal protective equipment selected, checked and worn?
6. ! Was the area ventilated (where appropriate)?
7. Was the appropriate disinfectant applied to the spillage/item and sufficient contact time allowed?
8. Were contaminated items removed to the waste bag or box?

# Agitate the Cleaner

Always agitate the cleaner to get the chemical working.



Never just pour the chemical onto the surface and leave it.

# Leave Cleaner to Work

Contact time: Allow the chemical to do it's job



# Flush & Wipe

Always flush to rinse away the chemical



Damp wipe  
& dry the  
surrounding  
surfaces

# Sanitary Cleaning Proficiency Certification

- A Collaboration between BICSc & BTA
- Designed to fill a need within the industry for the of Sanitary Cleaners and Washroom Attendants

# Tasks Covered

## Preliminary Certificate

### Operators / Attendants

BTA1/F6 Floor sweeping & refuse collection

BTA2/F4 Control of body fluids spillage

BTA3/C2 Wall Washing

BTA4/D3 Sanitary ware cleaning

BTA5/A2 Single solution mopping

BTA6/C4 Pressure washing

## Full Certificate

### Supervisors

To hold preliminary certificate plus the following:

BTA7 / AA1 Chemical competence

BTA8 / AA3 Storage of equipment

BTA9 / A6 Machine scrubbing & drying

BTA 10 / C5 Graffiti removal

BTA 11 / D1 Dust, Damp wipe and wash

BTA 12 / A15 Cleaning Stairs









# For More Information Contact:-

**British Institute of Cleaning Science,  
9 Premier Court,  
Boarden Close,  
Moulton Park,  
Northampton,  
NN3 6LF**

**Tel:- 00441604 678710**

**em:- [info@bics.org.uk](mailto:info@bics.org.uk)**

