



Office of Health and Safety

Safety Awareness Talk For IA Students

Promote Safety . Protect People . Prevent loss

Background



- Hazards and risk exists in Industrial Attachment
- The level of risk depends on the type of industry and nature of work carried out
- Risk can be managed with proper control and good practices => Accident can be prevented
- Everyone has a part to play (Employer & Employee)

Accidents Can Be Avoided



Some could
lead to
permanent
incapacity

What We May Not know.....



- ✓ Any “accidents” in Singapore may lead to legal prosecutions
- ✓ Consequences of “accidents” can also lead to lifelong regrets



Case Sharing



做试验被机器夹 南大女生险失双手



女生到园中大楼实习。
双手被夹伤送院。

陈凯松 吴绍君 报道
chinks@sph.com.sg

双手被夹，南大女生险失双手！

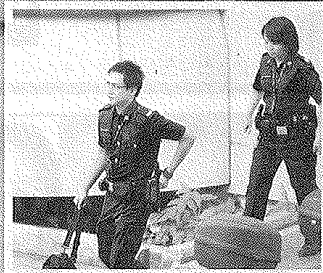
南大一名女生，昨天在一所研究中心实习时发生意外，双手不知何故，被一台重型机械夹中，动弹不得。

事故发生在昨天下午3时20分左右，地点在南大校园内的南洋通道Simtech谷楼的一间实验室。出事女生今年23岁，叫刘思嘉，是南洋理工大学材料科学与工程学院学生。

据了解，女生在操作一台聚合物拌合机，双手突然传来剧痛，被机械夹住。

女生一脸震惊，在场者也手忙脚乱地拨电求救。

一名目睹者告诉本报，女生惊吓过度，整个人当场愣住。她



两名警员昨天傍晚重回现场，展开调查。

神志清醒，但全身颤抖，久久说不出话。

民防部队赶到现场，决定拆除机器救人。女生被夹了大约40分钟脱困，被救护车送进国大医院。

本报今早走访医院时，女生刚好不在病床上，相信正在接受X光检验。

警方的调查还在进行中，出事原因有待进一步确定。（人名译音）

- IA student was cleaning feeder bowl with Polypropylene resin
- She was using a brush to scrap down the resin from the bowl while mixer blades still rotating
- The brush dropped into the mixer chamber and she put her right hand in to retrieve the brush
- Her lab coat sleeve was caught by the blade and she tried to retrieve her right hand using her left hand
- Both hands got stuck
- Ambulance and SCDF were both activated to remove the bowl as her hands were stuck inside and sent together to hospital
- She suffered fracture to her right lower arm

Case Sharing



- IA student was performing etching on carbon steel welded samples using Nital Acid (90% Ethanol & 10% Nitric acid)
- In the process of using a cotton ball soaked with acid to swap on the carbon sample, a drop of acid flew into one of his eyes
- Immediately washed his eyes with water
- Experienced discomfort, given MC followed up by review
- He was wearing lab coat but not safety goggles

Common Causes of Accidents



Employee not trained

PPE not used or used incorrectly

Assume able to do it

Inattentive or Indifference Attitudes

Taking shortcuts

Wrong tools for the job

Fatigue

Your Responsibility



Duties of “Employee” under the Workplace Safety & Health Act

- Do not act recklessly or wilfully which endangers yourself or the safety of others
- Do not misuse any equipment or PPE;
- Co-operate with your “Employer” over safety matters;
- Use equipment only when authorised to do so. When not sure, please ASK;
- Use the provided PPE (know how and the limitations)



Personal Protective Equipment



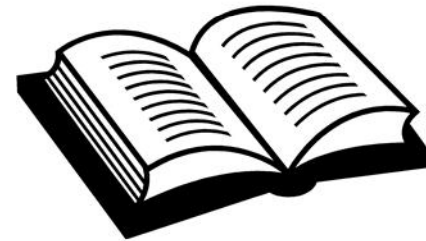
**Use the right
PPE and use
them correctly**

You Should Also ...



ASK for safety information when in doubt. May include:

- Risk assessment
- Safe work procedures
- Operating instructions
- Change of PPE when damaged



Notify your attached organisation and NTU for any incident or unusual occurrence

You Should Also ...



三 思 为 妙 **Think Thrice BEFORE You Act**

What is Take 5?



Stop and Look



Think through the Task



Identify Hazards




Control + Communicate



Do the Task Safely

More Info Needed?



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Welcome

Welcome to the Web Page of the Office of Health and Safety (OHS).

The OHS was established in August 2008 to promote the elimination of workplace health and safety hazards in NTU.

In order to achieve this, OHS has developed a 10 years milestone plan, moving from compliance to legal requirements to a world class safety management under the leadership of the

QuickLinks



I See, I Hear, I Tell...

Tell us what's happen around you



Write to Me

Email us for any inquiries

IA Students
Safety
Handbook

Promote Safety . Protect People . Prevent loss



Your safety matters most. Enjoy your IA and do it safely!

Remember:

- Stay focus
- No music or hand phones whilst at work with heavy machinery or dealing with anything hazardous



End of Presentation