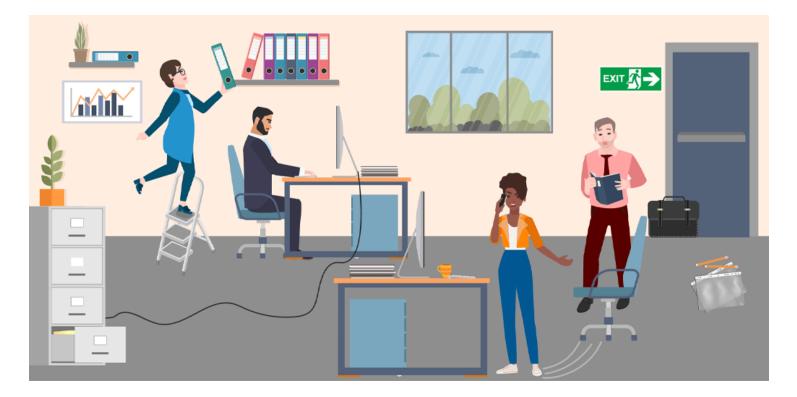
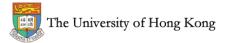
Office and General Safety

Dr. Paul Hunt, Director of Safety





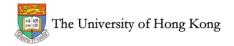
What is Safety?

- Preventing real people from really getting hurt
- Sensible controls for real risks
- •Enabling, not hindering



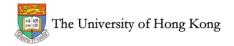
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You will probably get away with most things once ...



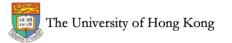
The University of Hong Kong

Risk in Safety Terminology

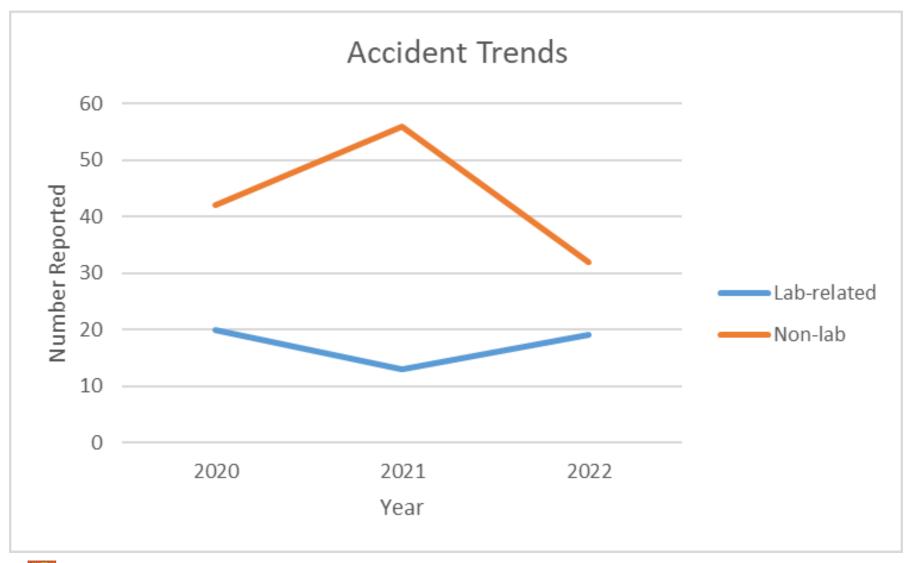
- Risk = chance of accident x severity of consequences
- Severity = severity of injury x number of people affected
- Relatively few things are instantly lethal every time
- But if you perform a high risk activity often enough, your luck will eventually run out
- Generally things are done repeatedly
- Perform a low risk activity very often, could eventually cause significant harm to someone





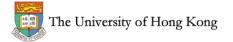


Overall Frequency of Reported Accidents

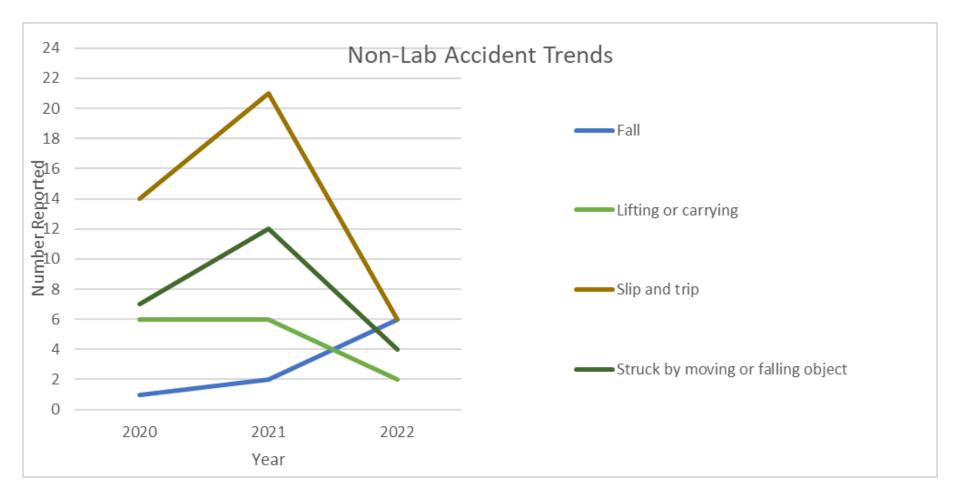


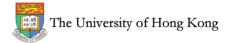
Accidents Affect Everybody

All accidents	2020	2021	2022
Arts	1	0	0
Colleges	8	16	4
Dentistry	3	3	1
Education	0	4	0
Engineering	3	2	3
Law	0	1	0
Medicine	26	20	20
Science	5	5	8
Social Science	0	3	4
Non faculty	20	15	14



Top 4 causes of reported non-lab accidents in HKU





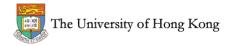
Risk cannot be eliminated

Getting the balance right



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Safety Legislation

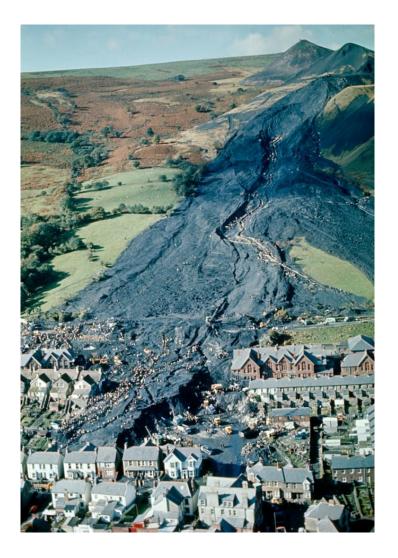
- Defines "Duty of Care" concept
- Defines statutory responsibilities of different persons in ensuring H & S.
- As well, other codes and standards may exist in law
 - for example Factories and Industrial
 Undertakings Ordinance CAP 59
- Risk Assessment is a key feature.



Why "Duty of Care" ? Aberfan colliery disaster 1966

- Legislation cannot foresee every risk, but people can
- Coal mining spoil tip collapsed onto a village in South Wales after heavy rain, engulfing the village school
- 116 children and 28 Adults killed
- Spoil tip had been constructed on top of a natural spring and had been in use for years
- Numerous warnings had been given beforehand about potential danger, none heeded







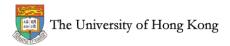
Aftermath

- Mine operated by National Coal Board
- Public enquiry but ultimately <u>no prosecutions</u>
- In 1966 Numerous laws relating to safe conduct of mining operations existed at time, but
- All related to conduct BELOW Ground
- No specific duty under the law relating to spoil heaps, so NO criminal prosecution

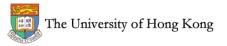


Aftermath

- Law was changed in 1974 Health and Safety at Work Act (HSWA) introduced
- Introduced "duty of care" principle that applies even if no other relevant law or guideline exists
- Key principal of HSWA implemented in Hong Kong in Occupational Safety and Health Ordinance CAP509



Occupational Safety and Health Ordinance Cap 509

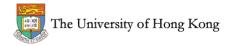


Occupational Safety and Health Ordinance Cap 509

• Section 6 (1)

"Every employer MUST, as far as is reasonably practicable, ensure the safety and health at work of all his employees"

- Interpretation of this by courts is that what is "reasonably practicable" relates to the severity of potential harm
 NOT
- The cost or trouble to the organization of introducing the measures



Legal Expectation

- If you are responsible for an activity, you need to:
 - -Assess the consequences of that activity on others
 - Identify all realistic sources of harm
 - Take reasonable precautions to prevent harm to others
 - Take reasonable steps to ensure that precautions are followed
- You may not be present when most of the activities you are responsible for take place
- Even if there's nothing specific in law that covers a particular situation, the duty of care still applies



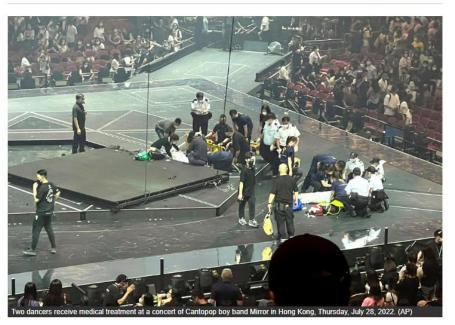
Recent Prosecution under CAP 509

- January 2024 Hip Hing Loong Engineering pleaded guilty to "failing to ensure the safety of their employees, failing to ensure that devices were safe and failing to notify authorities of accidents"
- Fined HK\$420,000
- November 2023 Engineering Impact fined HK\$220,000
- November 2023 Studiodanz fined HK\$132,000
- Accident happened during 4th concert of a run of 12



Gov't initiates 15 prosecutions against three companies over Mirror concert incident

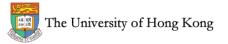
Local | 27 Jan 2023 6:37 pm



The Labour Department has initiated 15 prosecutions against three companies over the incident at a Mirror concert last July, where dancer Mo Lee Kai-yin was severely injured by a gigantic falling screen, and a hearing has been scheduled on March 27.

"The investigation revealed that the relevant occupiers and employers – Engineering Impact Ltd, Hip Hing Loong Stage Engineering Coo. Ltd. and Studiodanz Co. Ltd. – were suspected of breaching Cap. 509 Occupational Safety and Health Ordinance and Cap. 282 Employees' Compensation Ordinance," a statement read.

"The involved offenses include failure to provide the employees with safe plant and safe systems of work, and failure to notify the Commissioner for Labour of accidents and to take out employees' compensation insurance for employees," it continued.



Hong Kong courts Hong Kong / Law and Crime

Hong Kong dancer paralysed in Mirror concert sues employer, amount may exceed HK\$3.5 million

Dancer Mo Li, 30, could be entitled to over HK\$3.5 million in compensation if court finds his injury resulted in permanent total incapacity

Reading Time: 2 minutes

Q

A Listen A



Brian Wong Published: 12:55pm, 21 Oct 2024 | Updated: 1:59pm, 21 Oct 2024

A Hong Kong dancer has sued his employer for compensation after he was hit by a giant screen that collapsed during a concert by Cantopop boy band Mirror two years ago, with the sum payable potentially running up to more than HK\$3.5 million (US\$450,390).

Mo Li Kai-yin lodged the application in February this year under the Employees' Compensation Ordinance, which provides a mechanism for workers to claim damages arising from accidental injuries during their employment.



Hong Kong courts Hong Kong / Law and Crime

Hong Kong Mirror accident: government department not liable for stage safety, court hears

Coliseum employee who oversaw Cantopop boy band concert says organiser responsible for ensuring installations, including giant screens, are safe

Reading Time: 2 minutes

Why you can trust SCMP

Everythi

Why you can trust SCMP

A Hong Kong Coliseum deputy manager who oversaw the coordination of a series of concerts by Cantopop boy band Mirror told a fraud trial on Friday her government department was not responsible for stage safety or required to inspect platform installations, including a giant screen that collapsed and injured two dancers.

Kiki Wong Wing-ki told the District Court the Leisure and Cultural Services Department relied on a report submitted by an engineering consultancy hired by the concert organiser to confirm the safety of the concerts initially scheduled to run from July 25 to August 6 in 2022.

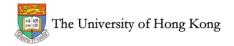
"But wouldn't this contradict the department's stated goal of prioritising public safety? Performers on stage are also part of the public, so why did the department not regulate or examine [the papers]?" Senior Counsel Wong asked.

Kiki Wong reiterated that it was the organiser's duty to prove those overhanging installations were in line with the safety assessment.

She added that as long as the engineering consultancy signed the papers, she believed it had conducted necessary safety evaluations.

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HKU's Safety Policy

- HKU is committed to ensuring the health and safety of all its employees, students and visitors
- In pursuit of this goal the University will as far as is reasonably practicable apply, provide and promote international standards of occupational and environmental health and safety



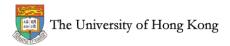
HKU Safety Policy 3.2 Supervisory Staff

(a) Every staff member (this includes principal investigators and lecturers teaching classes) is responsible for the health and safety of those employees and students under their care. This applies equally to academic and administrative staff as to technical staff.

(b) Staff cannot delegate out of this responsibility and should endeavour to encourage and foster safe working practices in those over whom they have charge;

(c) In cases where safety and health guidelines have not been prepared at

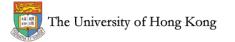
Departmental or University level, supervisory staff must ensure that a risk assessment has been completed and appropriate provisions made to eliminate or control the risks.



HKU Safety Policy 3.3 Departmental Safety Representatives

Each department should appoint at least one safety representative whose responsibilities are to assist the Heads in fulfilling their safety responsibilities and <u>can include</u>:

- (a) informing the Head of Department and the Director of Safety of any special hazards in, or new hazards about to be introduced into, the department/unit;
- (b) ensuring that new members of the department, including students, are informed of the University's health and safety policy, as well as departmental safety and health policy, standards and procedures;
- (c) identifying training needs and conducting activities to stimulate and maintain interest in safety and health amongst personnel in the department;
- (d) ensuring that means exist for all machinery and equipment to be maintained and used in a safe condition;
- (e) ensuring with the assistance of the Director of Safety that first aid, personal protective equipment and safety facilities are provided and properly maintained;
- (f) consulting with the Director of Safety, to promote, plan, and direct a regular programme of safety inspections, and participating in such inspections;
- (g) ensuring that accidents are reported promptly in accordance with University procedures and reporting any case of non-compliance to the Head;
- (h) maintaining liaison with the Director of Safety and the Director of University Health Service
- (i) investigating accidents and incidents and recommending accident prevention measures to the Head as and when necessary.



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- (a) informing the Head of Department and the Director of Safety of any special hazards in, or new hazards about to partment/unit; Health and safety?
- (b) ensuring that ne health and safet procedures;

Marvellous! But you need to speak to our Safety Officer

- (c) identifying training needs and conduction health amongst personnel in the departme
- ensuring that means exist for all machiner (d) condition;
- (e) ensuring with the assistance of the Directo and safety facilities are provided and prop
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- ensuring that accidents are reported prom. reporting any case of non-compliance to the Head;
- maintaining liaison with the Director of Safety and the Director of University Health Service (h)
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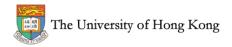
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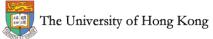
Hazard Spotting

There are 14 hazards in the following picture of an office

I would like you to identify 4 of them

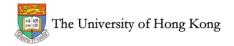






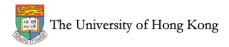
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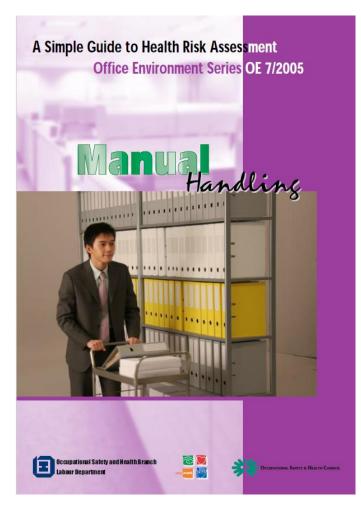


Some Office Risks that may be less obvious

- Manual Handling/Repetitive Physical Tasks
- Display Screen Use
- Cleaning and other Chemicals
- Clocks



Manual Handling/Repetitive Physical Tasks



Guidance Notes on Manual Handling Operations

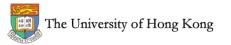




E

An Employee's Guide to Manual Handling Operation





Manual Handling/Repetitive Physical Tasks

HSE

Health and Safety

Manual handling assessment charts (the MAC tool)



This is a web-friendly

version of leaflet

INDG383(rev3),

published 11/18

Introduction

Work-related musculoskeletal disorders (MSDs), including manual handling injuries, are the most common type of occupational ill health in the UK. It is important to remember that:

- there is a lot you can do to prevent them;
- preventative measures are often simple and cost-effective; you cannot prevent all MSDs, but where they occur, early reporting of
- you cannot prevent all MSDs, but where they occur, early reporting of symptoms, proper treatment and suitable rehabilitation are essential.

The Manual Handing Assessment Charts (MAC) is a tool aimed at employers, health and safety managers and safely representatives and is used by health and safety respectors. The tool will help you assess the most common risk factors in fitting (and lowering), carrying and team handling operations and was developed to identify high-risk manual handling. It will point you towards the factors you need to modify to control these risks.

What does the law say?

The Manual Handling Operations Regulations 1992 set out a clear hierarchy of measures for dealing with risk likely to cause har

- avoid hazardous manual handling operation
- avoid nazardous manual handling operations the assess any manual handling operations the
- reduce the risk of injury to as low as reas

Structure of the MAC There are three types of assessment that can b

- lifting operations (pages 3-7);
- carrying operations (pages 8-12);
- team handling operations (pages 13-17).

For each type of assessment there is an assess There is a score sheet to complete at the end c

When not to use the MAC Using the MAC is not appropriate for:

- manual handling operations involving push
- Assessment of Pushing and Pulling (RAPP) assessing people handling (see HOP6 The
- A systems approach²); assessing workplace risks associated with
- Assessment of Repetitive Tasks of the upp

HSE

(†Z

Assessment of repetitive tasks of the upper limbs (the ART tool)

Guidance for employers

Assessment of repetitive tasks of the upper limbs (the ART tool) Guarant to emprove



INDG438 Published 03/10 HSE

Health and Safety Executive

Risk assessment of pushing and pulling (RAPP) tool



Introduction

This tool is designed to help assess the key risks in manual pushing and pulling operations involving whole-body effort, eg moving loaded trolleys or roll cages, or dragging, hauling, siding or rolling loads.

It is intended to be used alongside the *Manual handling assessment charts* (the *MAC tool*) which heps assess fitting and carrying operations, and follows a similar approach to that tool. It is aimed at those responsible for health and safely in workplaces and will help you to identify high-risk pushing and pulling activities and check the effectiveness of any risk-reduction measures.

Structure of the tool

There are two types of pushing and pulling operations you can assess using this tool:

- moving loads on wheeled equipment, such as hand trolleys, pump trucks, carts or wheelbarrows (Section A);
- moving loads without wheels, which might involve actions such as dragging/ sliding, churning (pivoting and rolling) and rolling (Section B).

or each type of operation there is a flow chart, an assessment guide and a score heet.

he flow charts provide an overview of the risk factors and assessment process, while the assessment guides provide information to help you determine the level of sk for each factor.

he tool is **not** appropriate for assessing pushing and/or pulling operations wolving:

- just the upper limbs, eg pushing buttons/knobs, pulling levers or moving loads which are on a conveyor (see Upper limb disorders in the workplace HSG60^o);
- just the lower limbs, eg pushing on pedals, or with the feet; powered handling equipment.

Jee of the tool may not comprise a full risk assessment. HSE's guidance locklet L23 Manual handling. Manual Handling Operations Regulations 1992: Juidance on Regulations² contains more information on conducting full risk seessments. Always consider individual and psychosocial issues when completing he RAPP score sheet.

Page 1 of 15



Health and Safety Executive

INDG478 St Published 2016 The tool





limb disorders (ULDs).

consultants and ergonomists.





The assessment of repetitive tasks (ART) tool is designed to help

(arms and hands). It helps you to assess some of the common risk

you risk assess tasks that require repetitive moving of the upper limbs

factors in repetitive work that contribute to the development of upper

ART is aimed at those responsible for designing, assessing, managing

Further information on ART, including online training on how to use the tool, can be found at www.hse.gov.uk/msd/uld/art.

and inspecting repetitive work. It can help identify those tasks that involve significant risks and where to focus risk-reduction measures. It will be useful to employers, safety representatives, health and safety practitioners.

Manual Handling – Some Considerations

Posture

- -Is the worker required to take up a difficult position to reach or place object ?
- –Does the worker need to hold the object above head height, at arms length etc. ?

Load Factors

- -Weight
- –Size, Shape
- -Cohesive object or can change shape easily ?
- -Dirty or clean ?

Ease of handling

- -Grip with hands?
- -Good handles available ?
- -Lifting aids/trolley/sack barrow etc.

Rubbish bags

Manual Handling

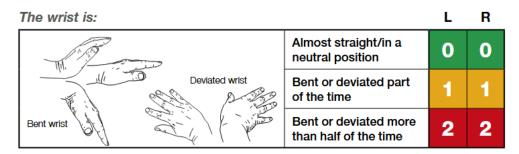


The University of Hong Kong

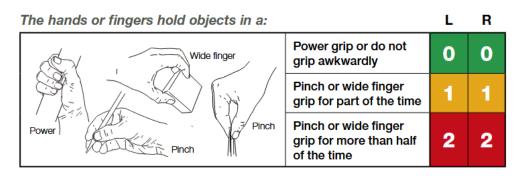
Repetitive Physical Tasks

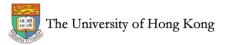
C4 Wrist posture

The wrist is considered to be bent or deviated if an obvious wrist angle can be observed.



C5 Hand/finger grip





Display Screen Equipment

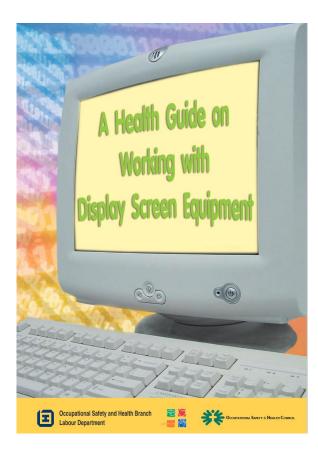
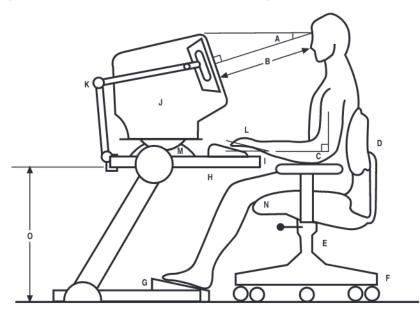
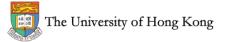


Diagram : The optimal workstation and working posture

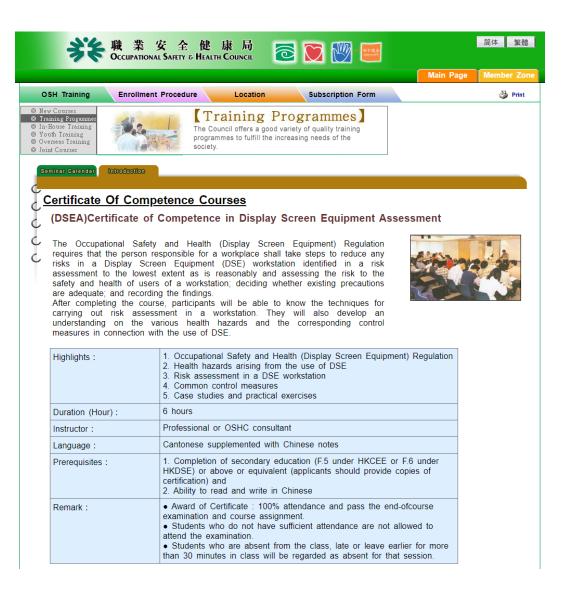


- A. First line on screen at about or just below eye level
- B. Comfortable viewing distance, e.g. 35 60 cm for text of normal font size
- C. Forearm at about right angle to arm
- D. Backrest adjustable in height and tilt
- E. Adjustable seat height : allowing the user to sit with thighs approximately horizontal, lower legs vertical and feet resting firmly on the floor
- F. Stable base, with castors if necessary
- G. Firm footrest if required
- H. Adequate legroom
- I. Support for hands
- J. Screen at about right angle to line of sight
- K. Adjustable document holder if required
- L. Wrist kept straight or at most slightly inclined
- M. Screen support easily adjustable for rotation and tilting
- N. Rounded or scrolled edge seat pad
- O. Adjustable table height preferable



Display Screen Equipment

- Safety Office <u>arranges</u> onsite training provided by OSHC
- Multiple opportunities each year, according to demand



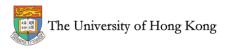


Chemicals

A Simple Guide to Health Risk Assessment Office Environment Series OE 6/2003

Use of hemicals





Chemicals

- A common perception is that because some chemical products can be purchased in shops they are somehow "safe"
- In practice the perceived safety is because in a domestic setting the chemicals are used occasionally
- In the workplace the same products may be used in larger quantities and more often
- In terms of risk domestic chemicals such as concentrated bleach are similar to concentrated hydrochloric or sulphuric acids used in labs

- Spray adhesive
- Spray paint
- Toilet cleaners
- Disinfectants
- Bleaches
- Insecticides

Cleaning Chemicals

H314

H335

Clorox®	Regu	lar₋Bleach₁
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Revision Date June 12, 2015

2. HAZARDS IDENTIFICATION

Classification

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200).

Skin corrosion/irritation	Category 1	
Serious eye damage/eye irritation	Category 1	

GHS Label elements, including precautionary statements

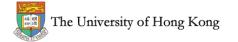
Emergency Overview					
Signal word	Dange	r			
Hazard Statements					
Causes severe skin burns Causes serious eye dama					
Appearance Clear, pal	le yellow	Physical State	Thin liquid	Odor	Blead

<u>Precautionary Statements - Prevention</u> Wash face, hands and any exposed skin thoroughly after handling. Wear protective gloves, protective clothing, face protection, and eye protection such as safety glasses.

-	Sigma-Aldric	www.sigmaaldrich.com		
	FETY DATA SH ding to Regulation (EC) No. 1907	Kevision Date 18:03:2023		
SEC	TION 1: Identification o	f the substance/mixture and of the company/undertaking		
1.1	Product identifiers Product name	· Hydrochloric acid		
SEC	FION 2: Hazards identif	ication		
2.1	Classification of the substance or mixture			
	Corrosive to Metals (Cate Skin corrosion (Sub-cate Serious eye damage (Ca	gory 1B), H314		
	For the full text of the H-Statements mentioned in this Section, see Section 16.			
2.2	Label elements			
	Labelling according Re Pictogram	egulation (EC) No 1272/2008		
	Signal Word	Danger		
	Hazard statement(s) H290	May be corrosive to metals.		

Causes severe skin burns and eye damage.

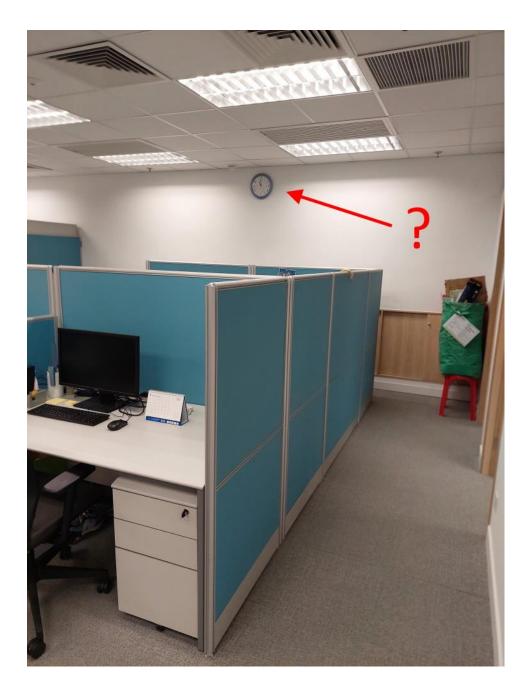
May cause respiratory irritation.



Chemicals

- Store and use chemicals correctly and away from food
- Read and follow advice on the warning labels
 - -Pay attention to warnings about effects on health
 - -Eg. Inhalation, skin contact
 - -Spray glue, spray paint etc.
- Avoid mixing different products
- Avoid over-stocking
- Wear robust gloves, and eye protection when using chemical cleaning agents. Wear overall if frequent user
- Redesign task to avoid needing to bring eye/face close to a place where chemicals could spill
- Some oil-based chemicals should not be disposed of via drains

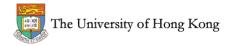
Moving Clocks/Changing Clock Batteries





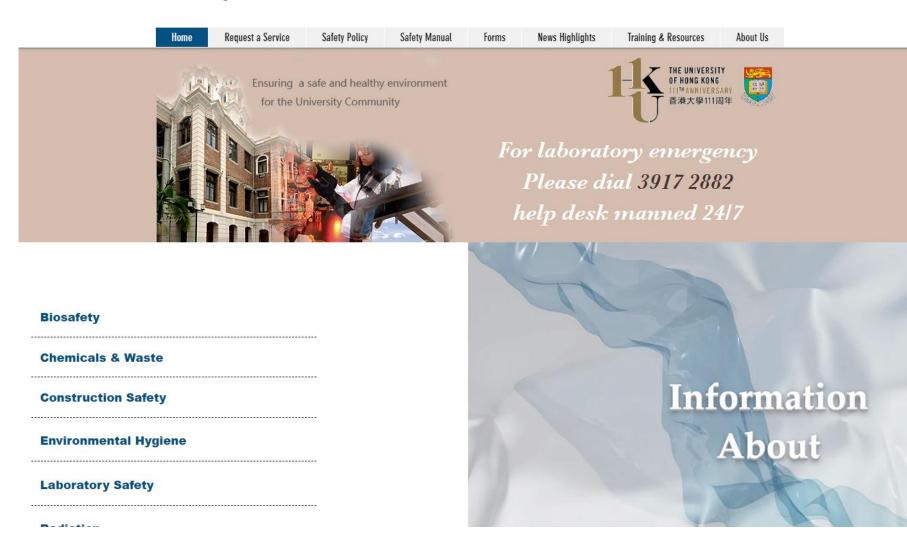
Presentation Plan

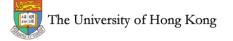
- Risks and Accident Trends in HKU
- Managing Risk and Safety Legislation How is Safety Law Relevant to Me ?
- HKU Safety Policy and Safety Responsibility
- Hazard Spotting
- Some less obvious risks in general workplaces
- Role of Safety Office



Safety office The University of Hong Kong

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Mandatory Safety Training

First Aid

Display Screen Equipment Assessors

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Training provided for Faculties and Departments



Safety Office – Specialist Technical Support Construction and Event Safety Team

- To comment and endorse event submissions provided by Registry, Cedars and other HKU units in line with statutory safety requirements before commencement of the corresponding event.
- To carry out safety inspections on events under Cedars, Registry and other HKU units and make advices or recommendations on improvement.
- To help Estates Office maintain an effective safety management system for their operation and activities in line with the Safety Management Regulations requirements.
- To comment and approve construction safety submissions provided by Estates Office and other HKU units in line with statutory safety requirements before commencement of the corresponding project.
- To carry out safety inspections on construction projects under Estates Office and other HKU units and make advices or recommendations on improvement.
- To investigate related accidents or incidents to find out their cause(s) and make recommendations for minimizing or even eliminating reoccurrence of similar cases.
- To provide or organize training(s) or workshop(s) to the relevant HKU stakeholders to continually upgrade or refresh their safety knowledge if appropriate.

Safety Office

*	Director	Dr Paul Hunt
*	Assistant Director	Dr Arthur Leung
*	Biological Safety	Dr Paul Hunt
*	Radiation	Dr Charles Chan
*	Chemical Safety/ DG/Waste	Ms. Mabel Lau
*	Occupational Hygiene	Ms. Florence Lam
*	Construction and Events	Mr. CP Wong

Emergency Call Centre 3917 2882. Manned 24/7. Have Safety Office out of hours contact details for Laboratory Safety Emergency

Tel : 3917 2400 Email: safety@hku.hk Fax: 2858 7159 http://www.hku.hk/safety