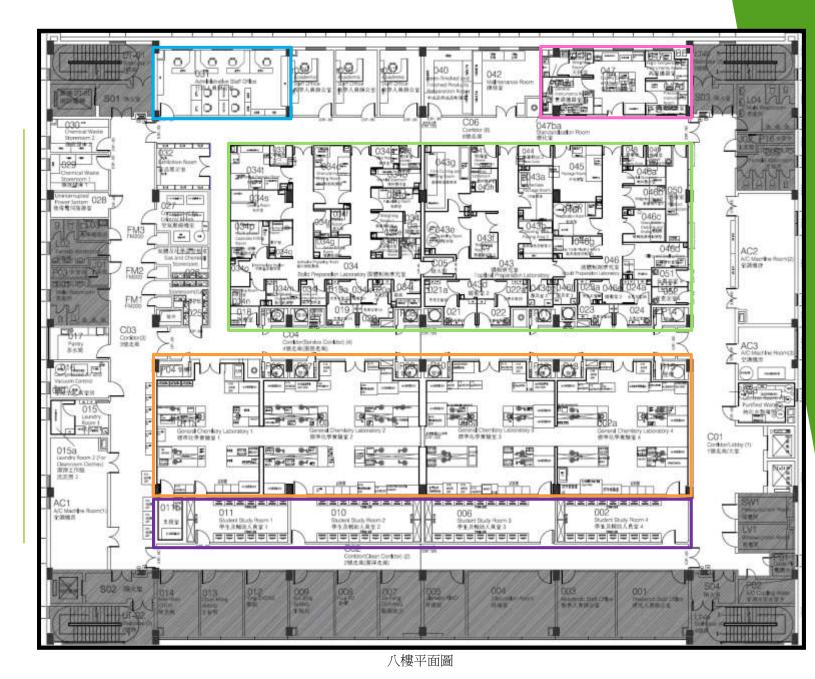
Laboratory Safety Introduction





Area and functions of 8F

- Administrative Staff Office (8031)
- Quality Control and Testing (8047)
- Student study room (8002, 8006, 8010, 8011)
- General Chemistry Laboratory (8002a, 8006a, 8010a, 8011a)
- Cleanroom area
 - > Solid Preparation Laboratory (8034)
 - Fopical Preparation Laboratory (8043)
 - > Liquid Preparation Laboratory (8046)



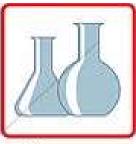
8F Laboratory Safety Introduction



Sharp instrument hazard



hazard



Glassware hazard



Chemical hazard



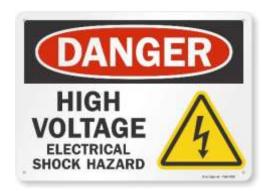
Electrical hazard



Eye & face hazard



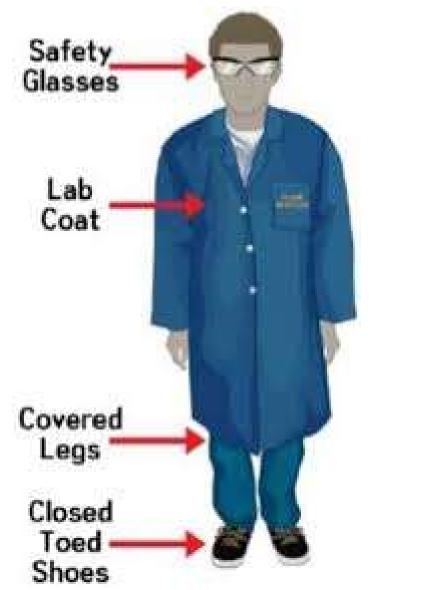
Fire hazard





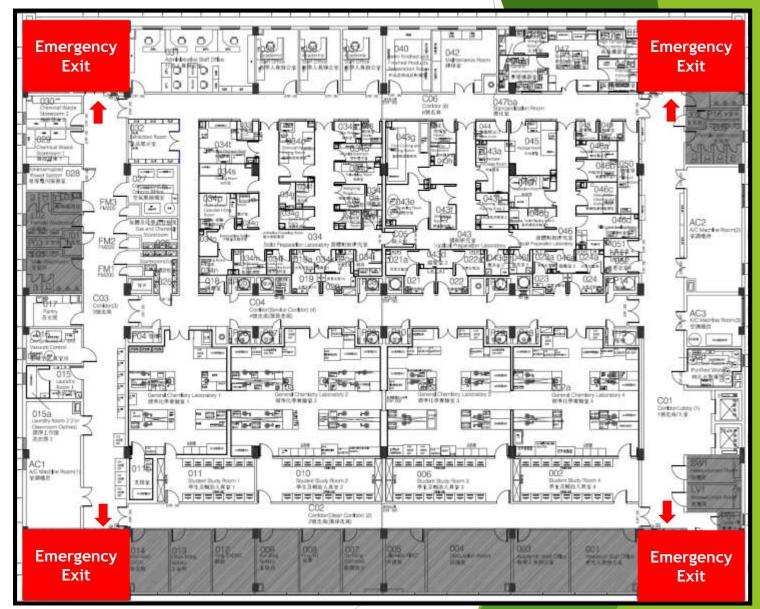


Personal Protective Equipment (PPE) requirement



Emergency Exit

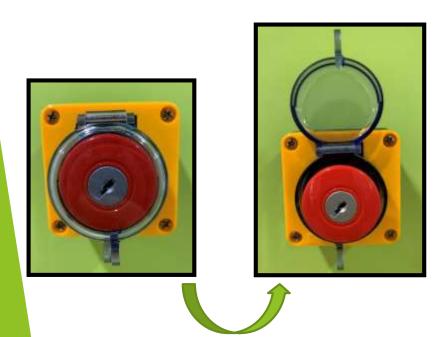
- There are emergency exit on all sides of 8F. In case of emergency, use the closest staircase for evacuation ;
- An evacuation floor plan of 8F is posted behind the door of each room, and please follow the instructions.
- Do not use the lifts in case of fire



Evacuation floor plan of 8F

Emergency buttons

- There are 53 emergency buttons on 8F. Pressing the buttons will activate the alarm to notify the entire floor of the evacuation and activate the emergency exhaust mode.
- The signal will be connected to the security center.





Emergency Safety Equipment

Equipment	Picture	Qty
Emergency Shower		3
Eyes Washer		8
First Aid Kits		3
Spill Kit	SPILL-KIT STATION	5

Emergency Safety Equipment location of 8F



Emergency Safety Equipment location

Rules for Storage of Chemical Reagents



Material Safety Data Sheets

MSDS

Document that contains information on the potential hazards (health, fire, reactivity and environmental) and how to work safely with the chemical product





Rules for Chemical storage

Corrosive Chemical Cabinet

User should not keep more than one week's supply of chemical





Organic Solvent Safety Cabinet

Strong Acid Chemical Cabinet

8F Chemical Waste Disposal

Each group should handle their own liquid waste disposal



Chemical waste, Emptied waste bottle

Broken glass disposal box



Sharp box



General waste



Solid Chemical Waste



Solid Waste

8F Chemical Waste Disposal - Liquid waste

Liquid Chemical Waste

- Liquid organic waste need to be disposed into designated collection bins at the waste room.
- Halogenated
- Non-halogenated
- Waste oil
- Heavy metal waste liquid (trace amount)

8029 \ 8030



8F Chemical Waste Disposal-8029, 8030

Fill in the Waste Disposal From and submit to 8031

Open time: Mon-Fri at 10am - 12 pm & 3pm - 5pm

10.720

Waste Disposal Form (N22-8th Floor)

		User Information	
Name		Student ID / Staff ID	
Group		Date	
		Waste information	
 Liquid Waste – please identify Others 	type of waste (Halogenated, Nor	i-halogenated, Heavy metal)	
Types of waste		Detail (must be filled)	
1. Liquid Waste	Halogenated	Non-halogenated	□ Heavy metal
	contains:	contains:	contains:
	volume:	volume:	volume:
2. Others			
	Below	is for Lab Technician ONLY	
Room number	1. Liquid Waste : 2. Others :		
Barrel number (For liquid waste)	 □ Halogenated : □ Non-halogenated : □ Heavy metal : 		

Staff Signature: _____ Date: _____

8F Chemical Waste Disposal

General Solid Waste

- Waste without chemical contamination
- Waste without biological contamination



8F Chemical Waste Disposal - Solid Waste

Solid Chemical Waste bin

- Chemical contaminated waste
- Gloves, tips, materials adsorbed with chemicals, etc.



8F Chemical Waste Disposal - Solid Waste



No needles or other objects are permitted

Broken glass disposal box

- No chemical and/or biological contaminated broken glass.
- If the box is 75% full, notify technician for replacement.



8F Chemical Waste Disposal - Solid Waste



Sharp box

- Needles
- If the box is 75% full, notify technician for replacement.







Purified Water System

8F Functional rooms -Centralised equipment



8027

8016

Vacuum and Compressed Air system

8025



storeroom

8F Functional rooms - Centralized equipment





Compressed air outlet



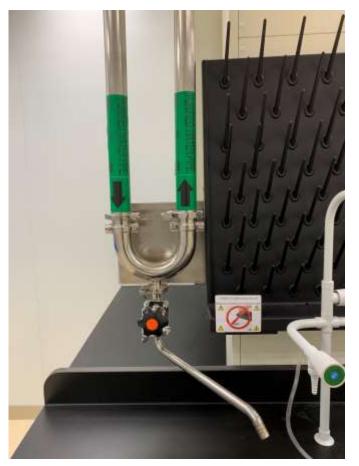
Vacuum

Vacuum and Compressed Air system

8F Functional rooms - Centralized equipment



Purified Water system



Purified water outlet

Run the water for about 30s to ensure the quality of water

8F Functional rooms - Centralized equipment



N2 Gas cylinder storeroom The corresponding gas cylinder cabinet number



N2 gas outlet

8F Electrical rules

- All labs has 220 V and 380V power sockets, do not remove or touch the safety label next to the 380V sockets
- Only electrical appliances with the standard British three pin plugs are allowed
- When using plugs and extension cords, be careful of overheating
- Do not touch any electrical appliances, sockets or switches with wet hands
- Equipment that is damaged or awaiting repair should be labelled properly and avoid using
- Before leaving the lab, computers, monitors and unnecessary equipment should be turned off.

8F Gas usage rules

- Consists of N2 from generators and high-pressure cylinders as well as compressed air
- Do not adjust any valves without permission or training
- Notify technician for gas cylinder replacement or if the pressure of the compressed air output is low °

Guidelines for 8F student study room

- 1. Register at 8031 for use
- 2. Cabinet keys can be borrowed and should not be shared or duplicated
- 3. Keep the environment quiet and clean, use headphones with audio
- 4. Do not stick notices or other items on walls
- 5. Food is strictly prohibited
- 6. Electronic products must comply with safety standards
- 7. Corridors should be kept clean
- 8. Individuals may be suspended or revoked in violation of the above

8F Equipment maintenance

Accessories : Register at 8031 in advance and sign the borrowing record

Cleaning :

- Clean apparatus after each use and return to original position
- Remove, wash and dry accessories before reinstalling back to the apparatus

Damage :

- In case of abnormal operation, inform technician immediately and do not try to fix the equipment
- Do not dismantle the equipment without persmission



ICMS Instrument Training and Examining Application (中論人論先多問告譯之意思予項,兼當条將使支討實驗宜故者員處。)

Requester Information		
Name	Student No.	Form Number (For internal and)
E-mail	Tel./Ext.	8
Office	P.L.	
Instrument Information		
Instrument Name		
Model		
Internal No.		
Location		
Justification		
Signature		
Signature Date:	Date:	Date

Application Received Date		
Training Person	Email	
Training Date	Training Time	
Examining Date	Examining Time	
Follow-up		

- 備註:
- 1. 申请者在使用實驗室內任何儀器前需經由培訓及递過考核方可獨立操作
- 申請者填妥表格後交到技術員辦公室,由技術員安排培訓及考核時間,並會以電郵形式確認;
- 都分儀因將由研究助理或儀器負責人幫忙培訓,但仍須由技術員進行考核;
- 4. 考检通過後按儀器預約程序進行預約,部分儀器採用纸本預約形式,部分收費儀器則採用LMIS系統預約,詳細情況請向技術員查詢,未得批准前禁止擅自使用儀器。

1/1



Thank you for your attention!

- Technician office 8031
 - Mon Thurs: 9am 1pm, 2:30pm 5:45pm
 - Friday: 9am 1pm, 2:30pm 5:30pm