



CONSTRUCTION  
INDUSTRY COUNCIL  
建造業議會

# 安全角色與責任-經驗 分享

Safety Roles & Responsibilities –  
Experience Sharing

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# Safety Roles and Responsibilities

- Safety is everyone's responsibility
- One of the main safety roles and responsibilities of the key safety staff is to **eliminate risks and hazards** throughout the construction process
- Another main task is to **improve the site safety standard continuously** to protect the safety of all site staff



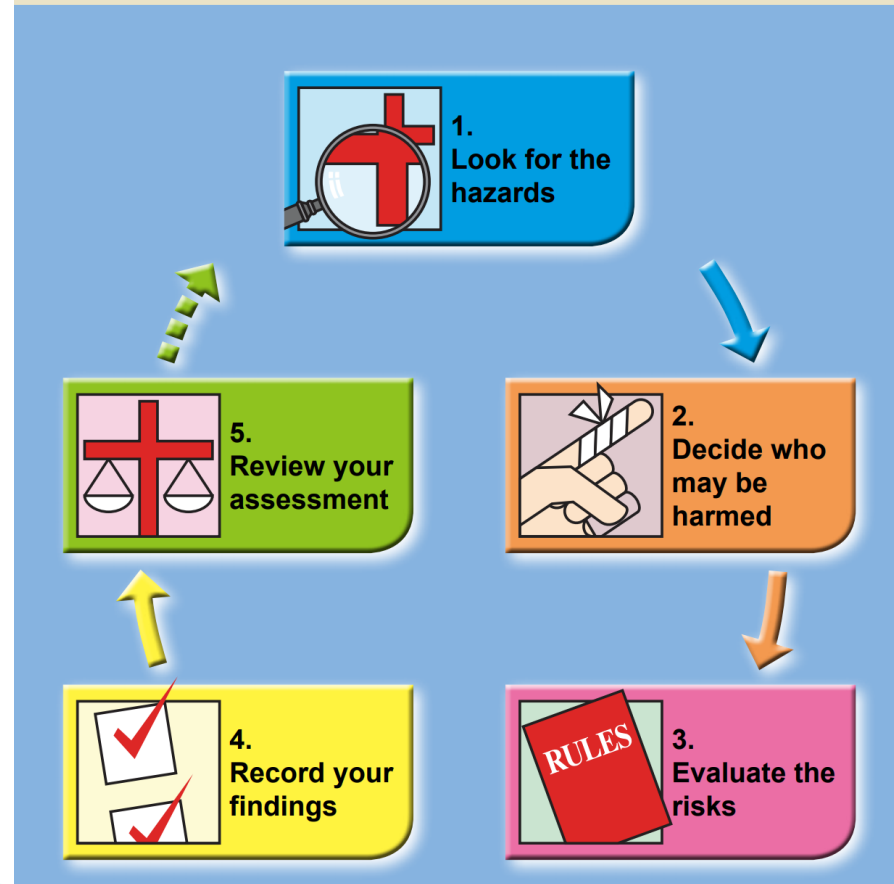
# Eliminating Risks and Hazards



# Risk Assessment

- **Risk assessments** enable employers to take the measures necessary to protect the safety and health of their employees
- In addition to review the project own risk assessment, safety personnel are encouraged to have **lesson learnt** from the construction injuries, so as to upgrade its own safety management system

## Five steps to risk assessment





# Experience Sharing – Plant Safety

- There were many plant or plant repairing failure incidents in recent years, resulting to fatal or serious accidents

土瓜灣避風塘工人遭吊臂滑輪壓死  
(12:22)



青山內河碼頭工人維修風鼓機 外殼爆開誤傷71歲工友



鯽魚涌致命工業意外 男工人被起重機夾斃

13/1/2020 22:49

鯽魚涌一個建築地盤下午發生致命工業意外，一名男工人被夾於一部起重機尾部，與附近圍欄之間，送院後證實不治。  
勞工處表示，事後即時派員到意外現場展開調查，並已向有關承建商發出「暫時停工通知書」，停止在地盤事發範圍內使用流動式起重機，直至信納承建商已採取措施消除有關危害，才可復工。目前正全速調查，以確定意外成因。

機場三跑地盤推土機懷疑失控 司機連人帶車墮海 送院後不治



機場三跑地盤  
推土機司機  
連人帶車墮海亡

數碼港污水處理廠地盤 工人遭剷泥機夾斃

06月16日(五) 14:52

推介 39 分享

數碼港污水處理廠地盤 工人遭剷泥機夾斃



# Experience Sharing – Plant Safety

- The Engineer and safety personnel shall conduct serious risk assessment to plant safety, and establish corresponding policy to eliminate the risk
  
- Area of concern includes:
  - ❑ Plant Checking
  - ❑ On site Repairing System



# Plant Pre-delivery Checking





# Pre-delivery Checking



**Pre-delivery checking  
conducted by  
Mechanican**  
**for high risk plants including  
Loadshifting Machineries and  
Cranes to be used in site**



# Pre-delivery Checking

**機械進場前檢查表 Plant Pre-delivery Checklist**

分判商 Subcontractor \_\_\_\_\_

地盤名稱 Contract Title \_\_\_\_\_

機械種類 Plant Type \_\_\_\_\_ 機序號 Serial No. \_\_\_\_\_

編號 No.	項目 Item	接受 Acceptable	不接受 Unacceptable	備註 Remarks
1.	引擎 Engine	<input type="checkbox"/>	<input type="checkbox"/>	_____
2.	液壓系統 Hydraulics System	<input type="checkbox"/>	<input type="checkbox"/>	_____
3.	電力系統 Electrical System	<input type="checkbox"/>	<input type="checkbox"/>	_____
4.	氣動系統 Pneumatic System	<input type="checkbox"/>	<input type="checkbox"/>	_____
5.	波箱 Gear Box	<input type="checkbox"/>	<input type="checkbox"/>	_____
6.	制動器 Brake	<input type="checkbox"/>	<input type="checkbox"/>	_____
7.	引擎罩/外殼部份 Bonnet/Upper Structure	<input type="checkbox"/>	<input type="checkbox"/>	_____
8.	駕駛室 Cabin	<input type="checkbox"/>	<input type="checkbox"/>	_____
9.	機械底盤 (鏈板/車輪等) Undercarriage (Crawler/Wheel etc.)	<input type="checkbox"/>	<input type="checkbox"/>	_____
10.	安全設備 Safety Devices	<input type="checkbox"/>	<input type="checkbox"/>	_____
11.	纜索 (起重/起架/輔重/尾鈴等) Ropes (Hoist/Derrick/Auxiliary/Pendant etc.)	<input type="checkbox"/>	<input type="checkbox"/>	_____
12.	吊臂架 Jib/Boom	<input type="checkbox"/>	<input type="checkbox"/>	_____
13.	控制器/儀表板 Controls/Panel	<input type="checkbox"/>	<input type="checkbox"/>	_____
14.	滑輪/桅桿 Sheaves/Mast	<input checked="" type="checkbox"/>	<input type="checkbox"/>	_____
15.	附帶文件/證書 Documentation/Certificate	<input type="checkbox"/>	<input type="checkbox"/>	_____
16.	車漆/外殼清潔 Paintwork/Body-Work/Cleanliness	<input type="checkbox"/>	<input type="checkbox"/>	_____

**Hardware**

**Certificates**

**Body-Work**

# Pre-delivery Checking

## 整體 Overall

- 設備可正常操作 Acceptable for work
- 設備未可操作及使用，原因如下 Not acceptable for work with the following reasons :  
\_\_\_\_\_

## 合資格人士 Competent Person

姓名 Name : \_\_\_\_\_ 職位 Position : \_\_\_\_\_

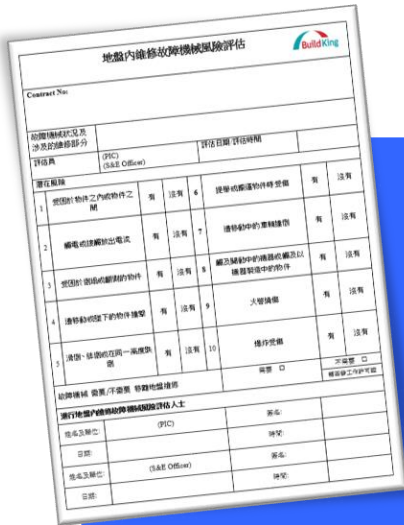
簽署 Signature : \_\_\_\_\_ 日期 Date : \_\_\_\_\_

副本抄送 cc copy to : 地盤負責人 PIC / 安全及環保主任 Safety & Environment Officer

# Plant Repairing




# when the plant has broken down...



*PIC & SO to conduct risk assessment and decide whether it is suitable for on-site repairing*



- PIC issues "Permit to Repair"
- Repair on site (**Buddy System**) under monitoring of Safety Supervisor




- Remove from site for repairing





# Continuous Improvement



# Importance of Fresh Eyes



- In addition to the routine safety inspection by site project team, consultant and client, it is important to acquire some **neutral third parties** to evaluate the site safety system and to give valuable suggestions for continuous improvement
- As a statutory requirement, construction sites having an aggregate of 100 or more workers in a day working in a single construction site/ 2 or more construction sites or contract value of HKD100 million or more shall conduct **F&IU audit** to examine their SMS system and constitutes as a “feedback loop”

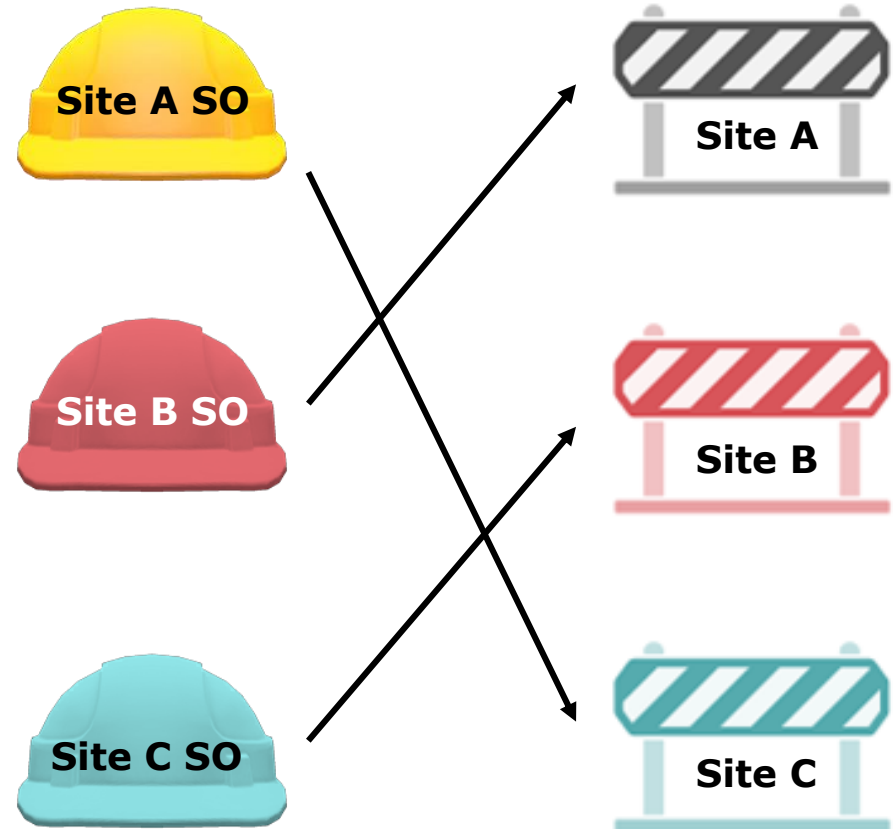
What else can we  
DO?



# Cross Site Assessment



- Cross site assessment to be conducted by **Senior Safety Officers** on regular basis
- Safety Officers and Assistant Safety Officers shall join the assessment as an **observer**
- Assessors shall observe the **good practices and areas for improvement** during the visit
- Completed assessment form shall be returned to respective Safety Officers for rectification



# Advantages



## For SO/ASO

- Widen their scope of safety knowledge through visiting various types of construction sites/ construction works

## For Senior SO

- Platform of opportunity in exchanging safety ideas
- Self-enhancement via learning good practices from others

## For Company

- Standardizing and upgrading the safety standard of all sites
- Experienced SO could be expected for more flexible manpower arrangement







謝謝

THANK YOU