

HASAS(NW) – 2023Q2-2023Q3
Summary on Audit Findings
房委會安全稽核制度 - 2023年第2及第3季
安全稽核結果

Occupational Safety and Health Council
職業安全健康局



Content

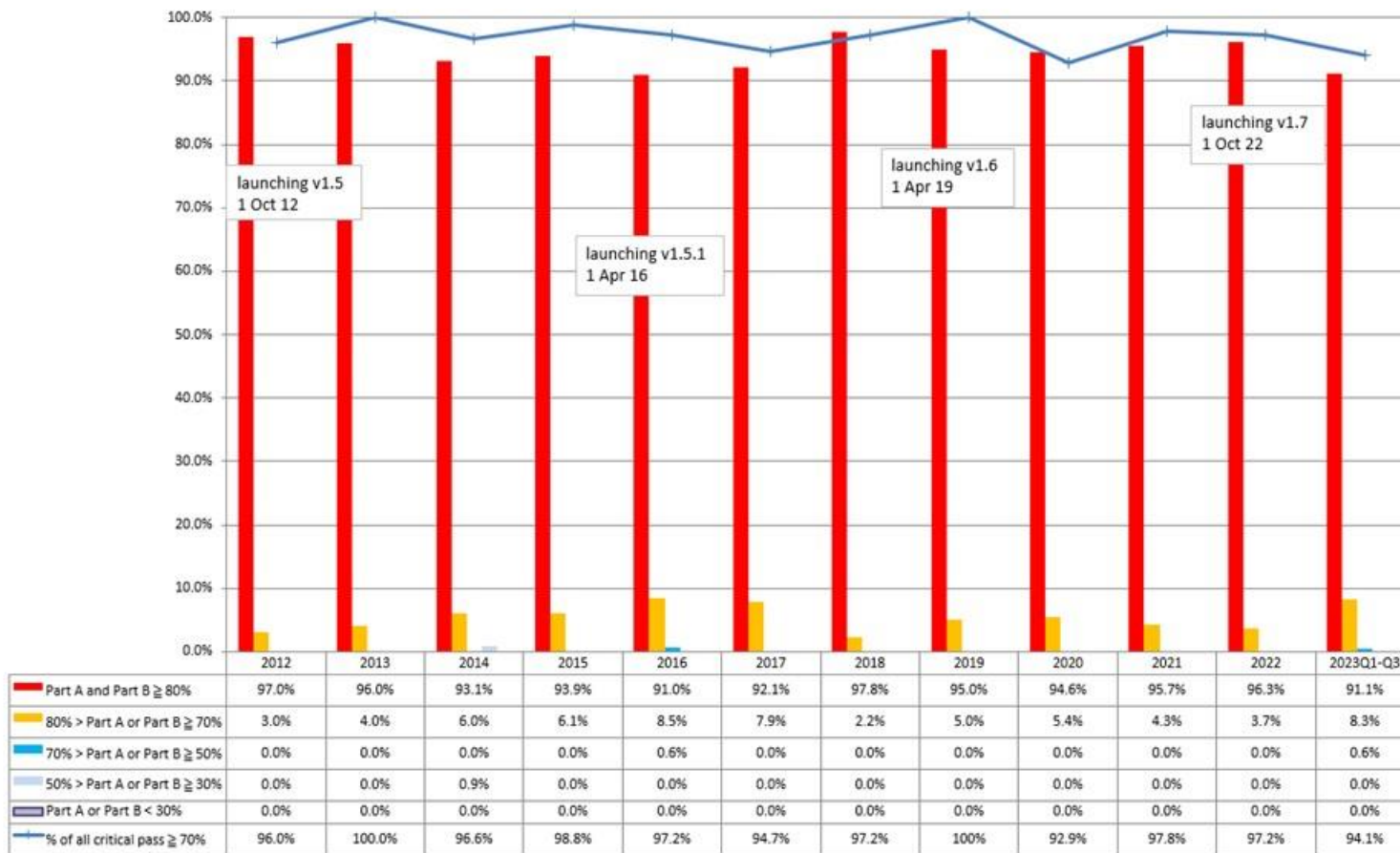
1. Overview on HASAS (NW) & HALENSAS Performance
2. Summary on Audit Findings 2023 Q2 – 2023 Q3

Overview on HASAS Performance

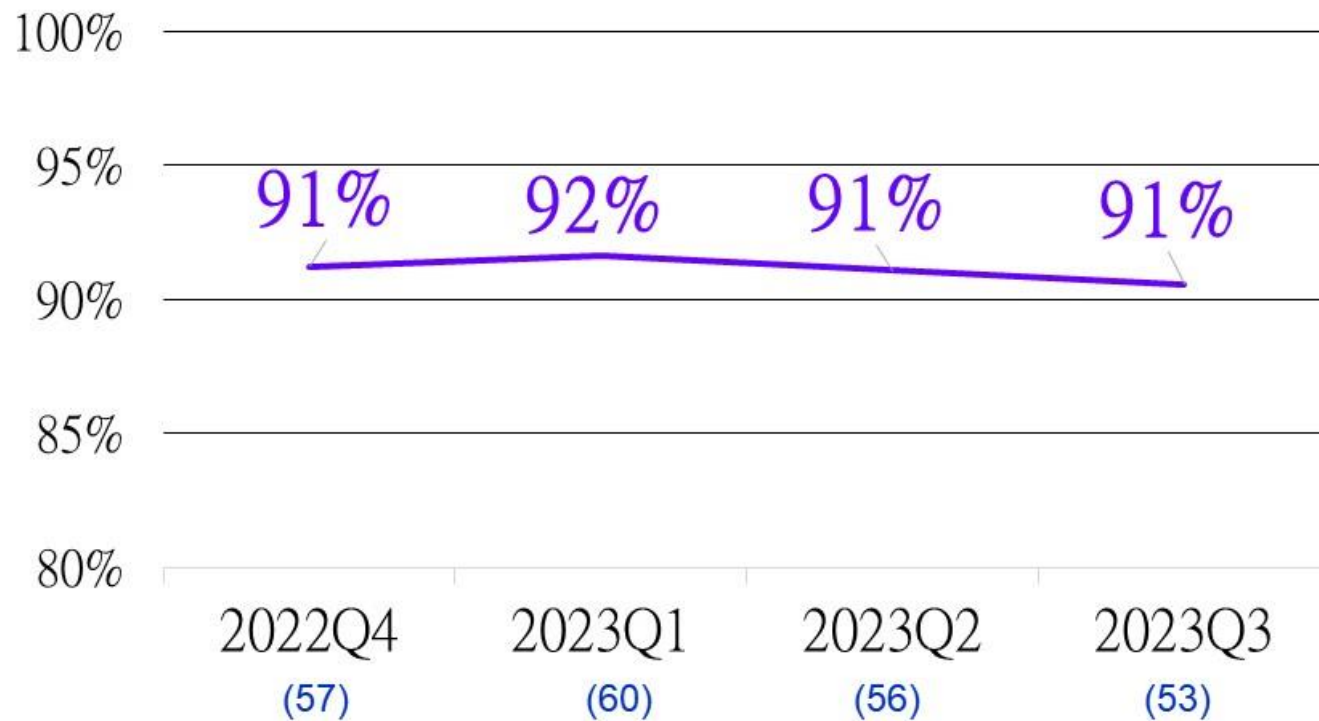
安全審核表現總覽

Chart 1A

Score trends of all HASAS contracts (from 2012 to 2023Q3)



HASAS



— % of projects with Part A & Part B score at 80% or above

Note : One contract with Part A & Part B score under 70% in 2023 Q2

HASAS Critical Pass Items

Chart 1C(1)

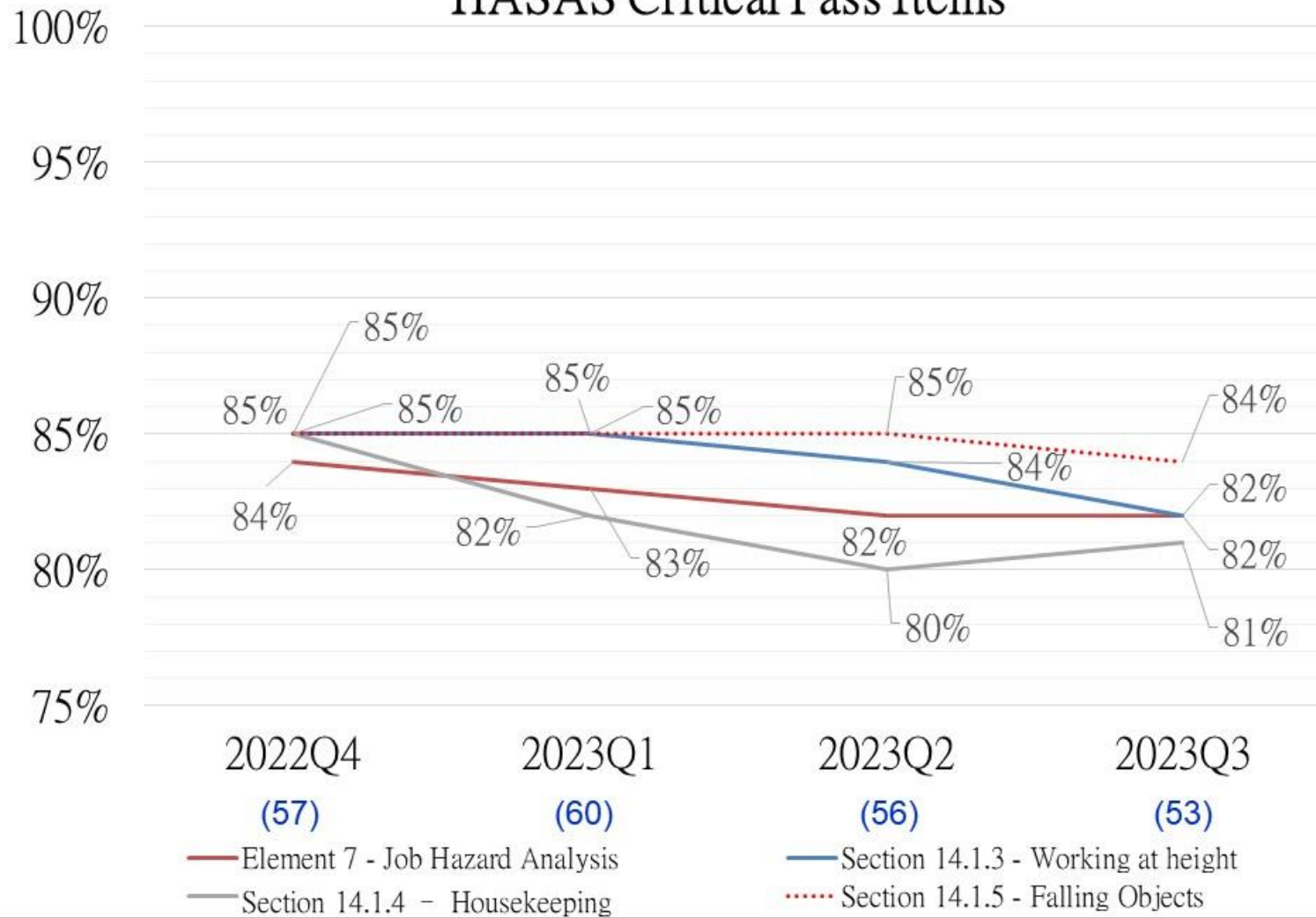
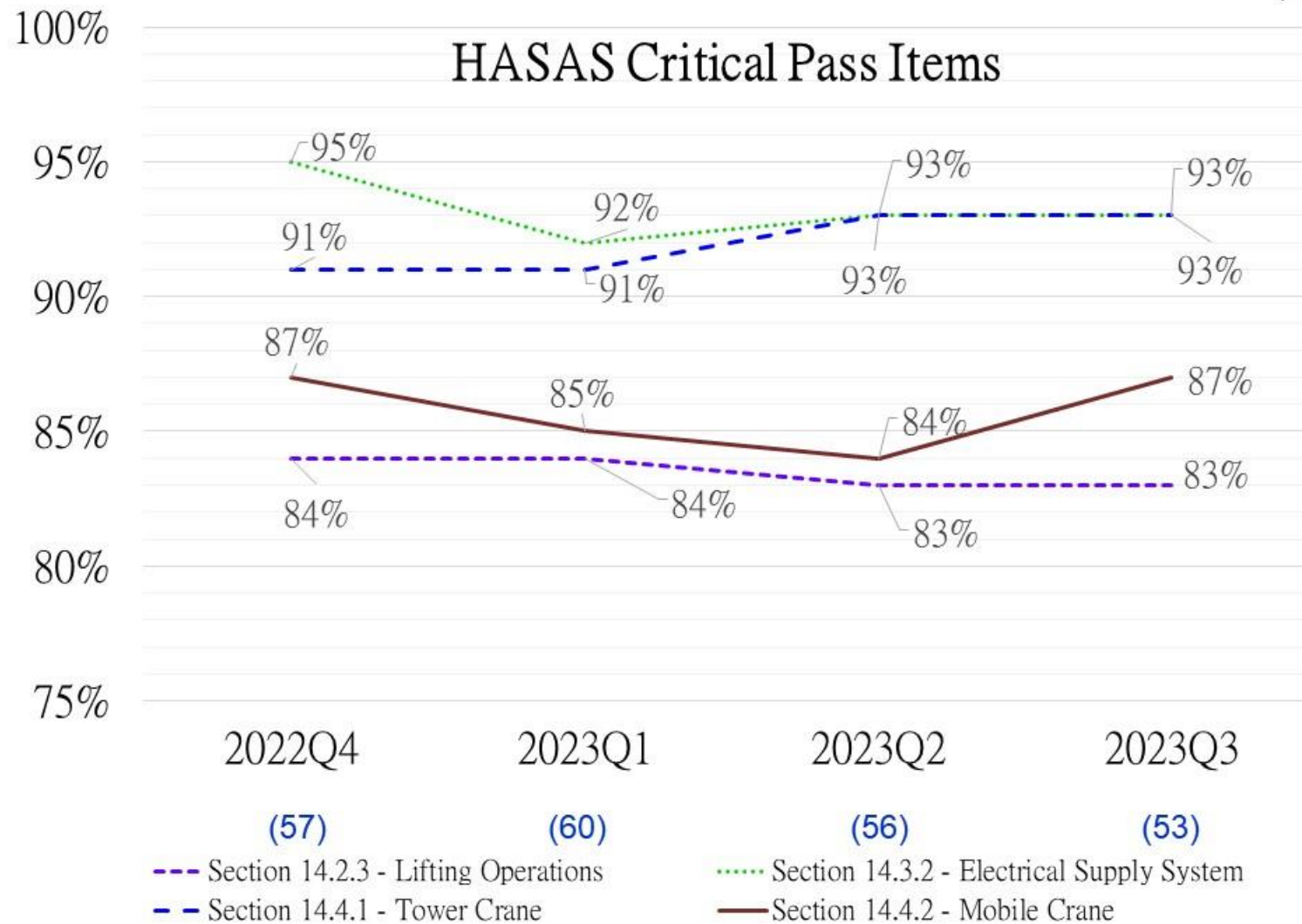
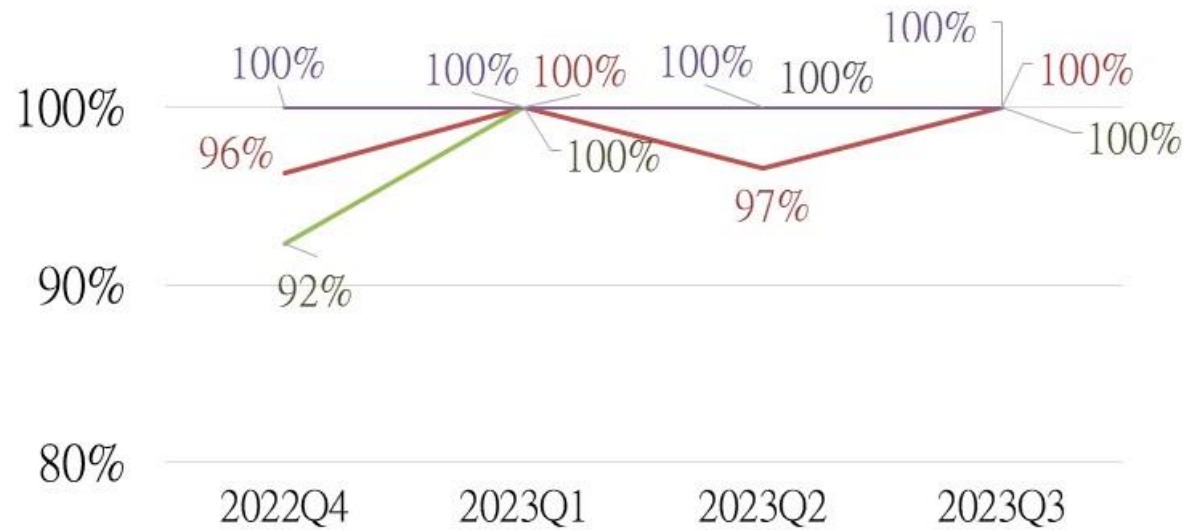


Chart 1C(2)



% of NSCs (EL, FS, AC) with score at 70% or above

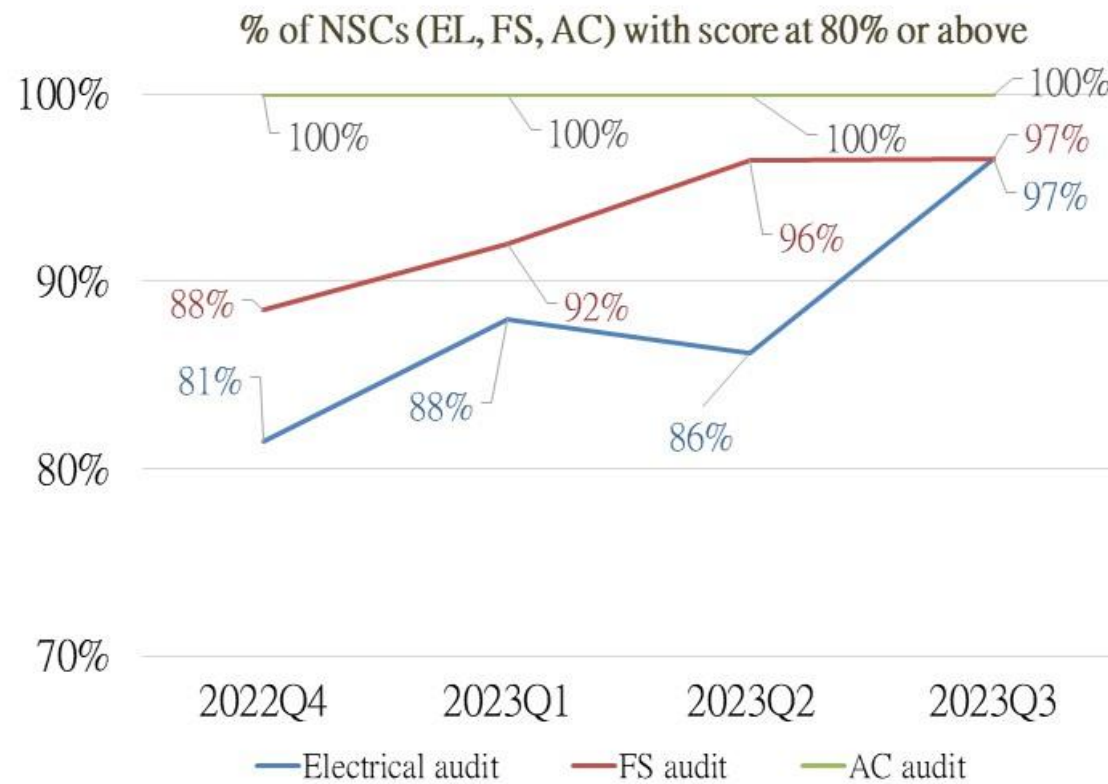
Chart 1D



— Electrical audit — FS audit — AC audit

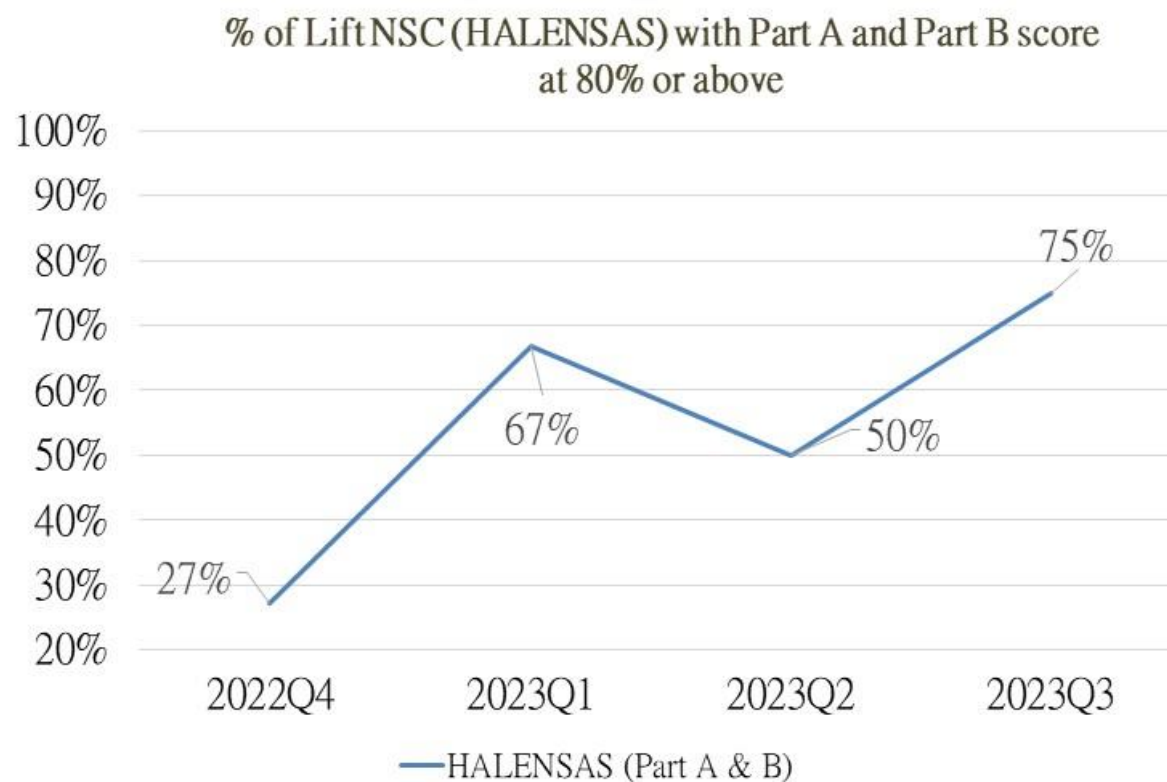
	2022 Q4	2023 Q1	2023 Q2	2023 Q3
Electrical audit	26(27)	25(25)	28(29)	29(29)
FS audit	24(26)	25(25)	28(28)	29(29)
AC audit	4(4)	4(4)	5(5)	4(4)

Chart 1E



	2022 Q4	2023 Q1	2023 Q2	2023 Q3
Electrical audit	22(27)	22(25)	25(29)	28(29)
FS audit	23(26)	23(25)	27(28)	28(29)
AC audit	4(4)	4(4)	5(5)	4(4)

Chart 1F



	2022 Q4	2023 Q1	2023 Q2	2023 Q3
HALENSAS	3(11)	4(6)	5(10)	6(8)

Note : All audits (HALENSAS) with Part A & Part B score at 70% or above in 2022 Q4 – 2023Q3

Safe Scaffold and Workplace 安全棚架及工作場所

GOOD PRACTICE 良好作業方式

- Provision of suitable platform ladder and hop-up platform
- 提供合適梯台及功夫檯



GOOD PRACTICE 良好作業方式



- Safe means of access & egress were properly maintained
- 為工作地點維持安全進出通道



Electrical Works 電業作業方式

GOOD PRACTICE 良好作業方式



- Electric cable was properly protected
- 電線妥善保護



Lifting Operations 吊運工序

GOOD PRACTICE 良好作業方式



- Provision of wires for the steel frame housing air compressor to avoid rigging at height
- 於空氣壓縮機的吊架加裝接駁繩索以便埋碼員可以站於地上進行埋碼工作



Lifting Operations 吊運工序

GOOD PRACTICE 良好作業方式



- CCTV system was installed for lifting zone
- 於吊運區安裝閉路電視監察系統



GOOD PRACTICE 良好作業方式



- Real time monitoring on proper wearing of safety helmet and reflective vest
- 實時監控安全帽、反光衣的正確佩戴情況



GOOD PRACTICE 良好作業方式



- Provision of somatosensory safety training facilities
- 提供體感安全訓練設施



GOOD PRACTICE 良好作業方式



- Provision of electrically operated retractable net for steel bending yard
- 於扎鐵場上方提供電動開關保護網



Others 其他

GOOD PRACTICE 良好作業方式



- Safe working procedure of operating material hoist was displayed
- 張貼物料吊重機的安全工作程序



GOOD PRACTICE 良好作業方式



- Face recognition system at metal formwork storage area
- 於鐵模存放區安裝人臉識別系統



Safety Innovation 創新工地安全措施

Skim coat robot



- The residential wall finishing robot is designed with multiple sensors and an AI recognition system. It has a maximum construction height of 3.3m, specifically for skim coat work. This advanced technology has the capability to reduce the workload of frontline workers and eliminate their exposure to various hazards.
- 這款智能牆面處理機器人可用於進行批灰工作，這配備多個感應器和人工智能識別系統，其最大施工高度可達3.3米。這項技術可以減輕工人的工作負擔，同時減少工人曝露於不同工序下所產生的危害。

HASAS(NW) –2023Q2-2023Q3
Summary on Audit Findings (NSC)
房委會安全稽核制度 - 2023年第2及第3季
安全稽核結果(指名承判商)

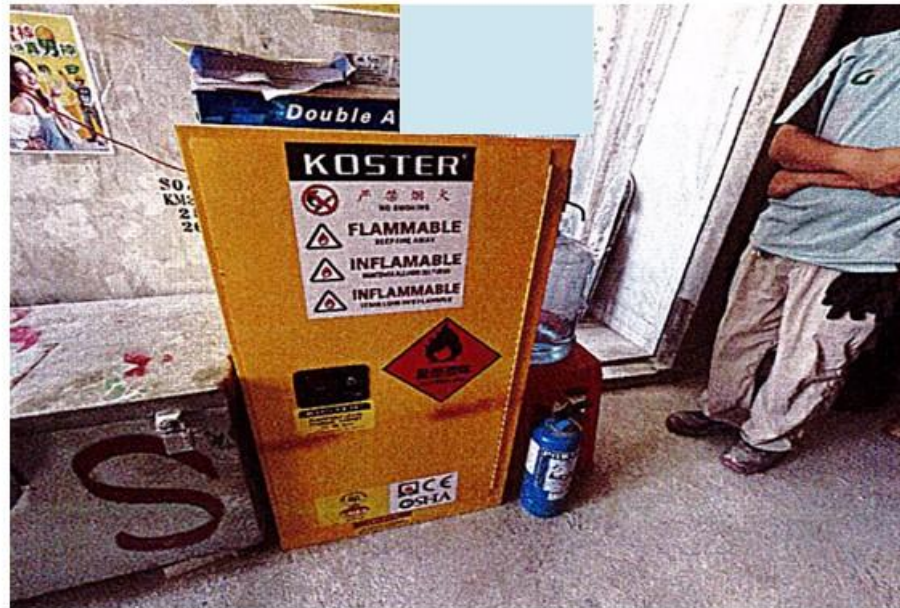
Occupational Safety and Health Council
職業安全健康局



GOOD PRACTICE 良好作業方式



- Flammable storage cabinet was provided
- 提供易燃物品儲存櫃



GOOD PRACTICE 良好作業方式



- Proper guarding and auxiliary handle were provided for angle grinder
- 角磨機安裝護罩及輔助手柄



HALENSAS –2023Q2-2023Q3
Summary on Good and Bad Practices
房屋委員會升降機及電梯指定分包合約安全稽核制度
2023年第2及第3季安全稽核結果

Occupational Safety and Health Council
職業安全健康局



GOOD PRACTICE 良好作業方式



- Dangerous parts of winch was properly guarded
- 為絞車的轉動部份提供合適護罩



GOOD PRACTICE 良好作業方式



- Guarding and auxiliary handle were installed for angle grinder
- 為角磨機安裝護罩及輔助手柄



GOOD PRACTICE 良好作業方式



- Proper use of lanyard
- 正確使用尾繩



GOOD PRACTICE 良好作業方式



- Lift pit was maintained clean
- 井底保持整潔



The END

Thank You!

This is a clip from the 16 January 2024 recording of the

Hong Kong Housing Authority

"Site Safety Seminar for Capital Works New Works Contracts"

The speaker on stage is Mr Jack FONG

the Senior Consultant of Occupational Safety & Health Council

His topic is

Housing Authority Safety Auditing System (HASAS) (For Building and Engineering Contracts)

and Housing Authority Lift and Escalator Nominated Sub-contracts Safety Auditing System

(HALENSAS)

Findings in Quarter 2 of 2023 to Quarter 3 of 2023

(00:35)

Hello everyone, I am Mr. Jack Fong, Senior Consultant of the Occupational Safety and Health Council

I will share the results from Q2 and Q3 of 2023

and sharing some photos

mainly focusing on the performance of the Housing Authority's Safety Auditing System

and the Housing Authority Lift and Escalator Nominated Sub-contracts Safety Auditing System

and the results of the safety audit from both quarters

Let's look at the overall scores first and focus on the last two lines

comparing Q1 to Q3 in 2022 and 2023

The red line represents Sections A and B

which were both above the 80 percent

A slight decline is observed

from 96.3 in 2022 to 91.1 in the first three quarters of this year

showing a drop of 5.2 points

Now look at the highest blue line in the graph
which representing key items
such as working at height and falling objects
All of them scored 70 or above to qualify for the blue line
There is a drop from 97.2 to 94.1 points
a decrease of 3.1 points
There were 56 projects in Q2
and 53 in Q3
The blue line means
if both Section A and B scores 80 or above
the project will receive a blue line
The overall score was consistent at 91 points for both quarters

For key items, let's look at four of them
The red dashed line at the top is for falling objects
It dropped one point over the last two quarters
from 85 to 84
The blue line is for working at height
which dropped two points from 84 to 82
The brown line is for risk assessment
which remained at 82 points
There was slight improvement in site housekeeping which rose from 80 to 81 points

But we have to bear in mind
site housekeeping still requires extra attention
as it had the lowest score among all key items
The next four items appear at the top with the overlapping 2 lines
The green line for electrical supply and tower crane both remained at 83 points
There was improvement in mobile crane which rose from 84 to 87 points

The lowest line represents lifting operations which stayed at 83 points

As for the nominated sub-contracts

the overall results were satisfactory

Most projects were 100% within our standards

while others attained at least 80 points

In the latest quarter, nearly all scores were 97 and 100

which is encouraging

For the Escalator Safety Auditing System

10 and 8 audits were completed in the last 2 quarters respectively

There was progress in sites attaining scores of 80 and above

increasing from 50 to 75

Now let's look at some interesting photos

Sites generally used step platforms and hop-up platforms that met standards

The standard is EN131-7

which includes standards anti-tilt testing

Site housekeeping was good

for example, access was free from obstruction

protruding steel bars were protected

cables had sufficient protection

which are all good practices

and also meeting contract requirements

Air compressors were placed in metal cages

with lifting chains on four corners

so that riggers can work safely from the ground

This is one of the examples

CCTV monitoring systems were installed in lifting zones

to safely monitor the lifting work

Some contractors used AI to monitor workers on site
checking proper use of safety helmets and reflective vests
Contractors also provided motion-sensing training equipment
and safety nets on site
Displaying safety operation procedures of using cranes
We strongly encourage contractors
to post method statements and work procedures on site
By using diagrams to explain the steps clearly
so workers can easily understand
Facial recognition systems were installed in the formwork storage area
similar to a work permit system, allowing only authorised personnel to enter
One innovative project was approved in the past two quarters

As mentioned earlier
a plastering robot was introduced on site
reducing workers' exposure to hazardous situations
It is already being used at Housing Authority sites
In audits of nominated sub-contractors
we saw that contractors allocated resources
to install flammable materials storage cabinets
which all comply with standards
Angle grinders were equipped with auxiliary handles
For lift works
unused winches had guards on moving parts
to prevent workers from the hazardous components
Angle grinders had guards and handles
This photo shows the correct use of lanyards
When correctly using the twin lanyards
the main lanyard from the harness should be clipped to an independent fall arrest anchor

while the other lanyard on the right acts as backup

That is the proper way to use it

This photo shows good housekeeping at the bottom of a shaft

That is the end of my sharing for today

Thank you for watching

(09:01)