HASAS(NW) - 2019Q4 - 2020Q1
Summary on Audit Findings
安全稽核結果

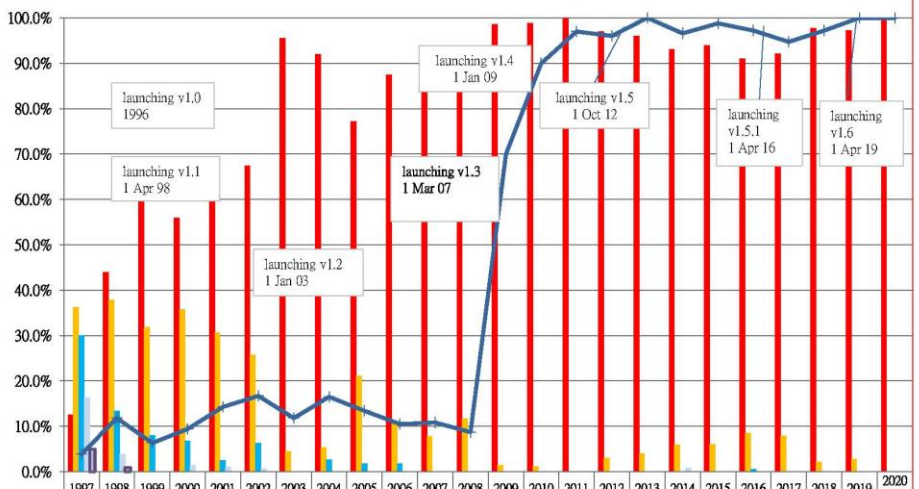
Occupational Safety and Health Council
職業安全健康局

Content

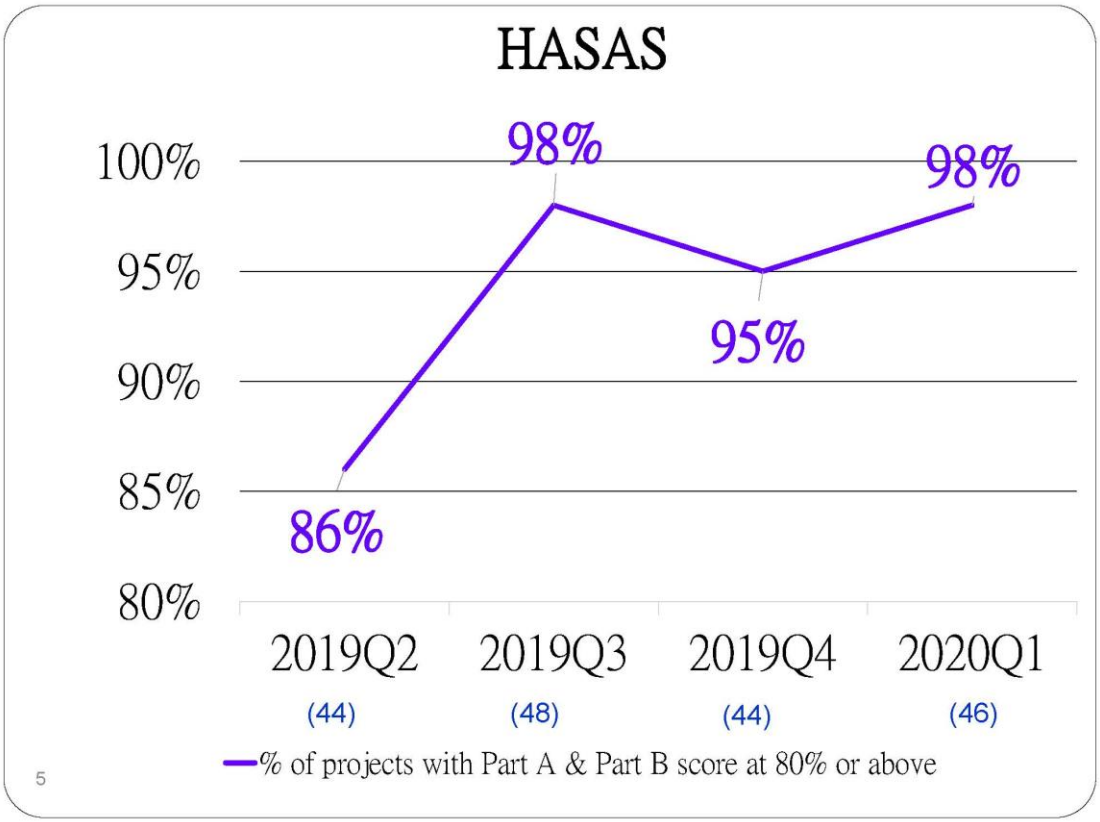
1. Overview on HASAS (NW) & HALENSAS Performance
2. Summary on Audit Findings 2019 Q4 – 2020 Q1

Overview on HASAS Performance
安全審核表現總覽

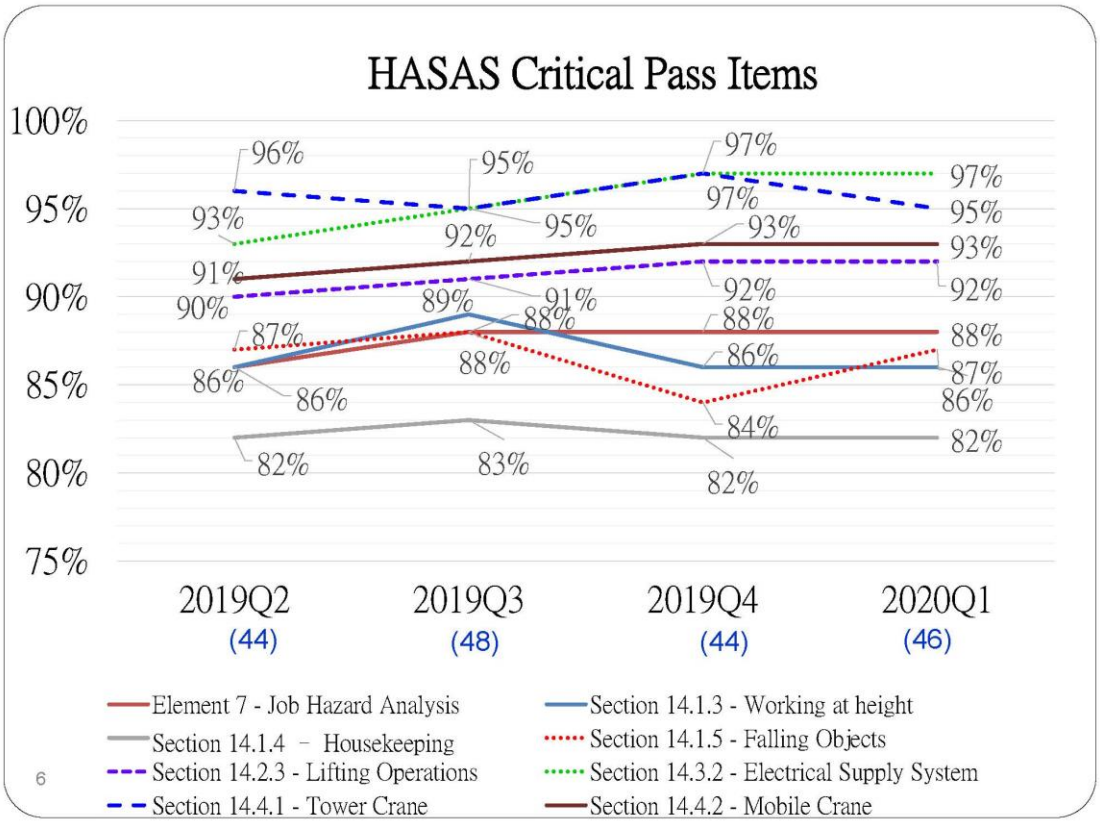
HASAS score trends of building contracts (from 1997 to 2020Q1)



	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020 Q1
Score ≧ 80%	12.5%	44.0%	60.2%	56.0%	65.3%	67.4%	95.5%	92.0%	77.2%	87.5%	92.2%	88.3%	98.6%	98.8%	100%	97.0%	96.0%	93.1%	93.9%	91.0%	92.1%	97.8%	97.2%	100%
80% >Score ≧ 70%	36.3%	37.9%	31.9%	35.8%	30.7%	25.7%	4.5%	5.3%	21.1%	10.7%	7.8%	11.7%	1.4%	1.2%	0.0%	3.0%	4.0%	6.0%	6.1%	8.5%	7.9%	2.2%	2.8%	0.0%
70% > Score ≧ 50%	30.0%	13.4%	8.0%	6.8%	2.5%	6.3%	0.0%	2.7%	1.8%	1.8%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.6%	0.0%	0.0%	0.0%	0.0%
50% > Score ≧ 30%	16.3%	3.9%	0.0%	1.4%	1.0%	0.7%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.9%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Score < 30%	5.0%	0.9%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
% of all critical pass items ≧ 70%	3.9%	11.8%	6.3%	9.4%	14.3%	16.7%	11.8%	16.5%	13.4%	10.5%	10.8%	8.7%	70.0%	90.0%	97.0%	96.0%	100.0%	96.6%	98.8%	97.2%	94.7%	97.2%	100%	100%

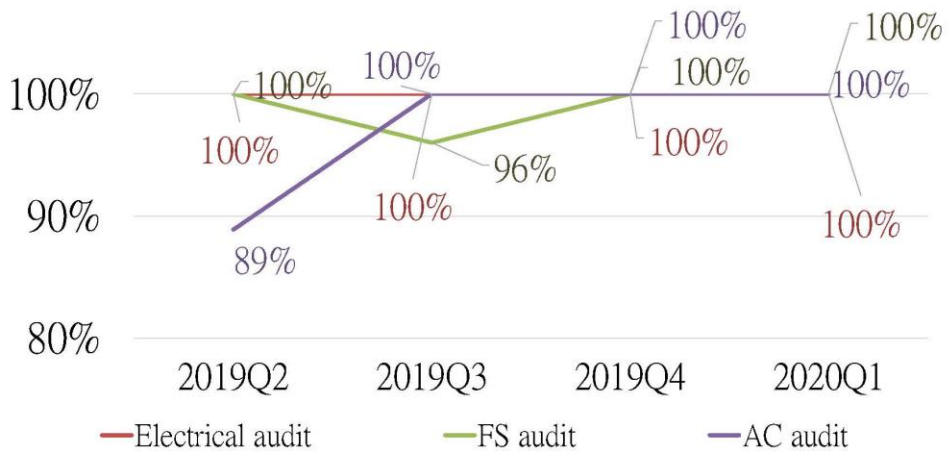

HASAS
100%
95%
90%
85%
80%
98%
98%
95%
86%
2019Q2
2019Q3
2019Q4
2020Q1
(44)
(48)
(44)
(46)
% of projects with Part A & Part B score at 80% or above

5


HASAS Critical Pass Items
100%
95%
90%
85%
80%
75%
2019Q2
2019Q3
2019Q4
2020Q1
(44)
(48)
(44)
(46)
Element 7 - Job Hazard Analysis
Section 14.1.3 - Working at height
Section 14.1.4 – Housekeeping
Section 14.1.5 - Falling Objects
Section 14.2.3 - Lifting Operations
Section 14.3.2 - Electrical Supply System
Section 14.4.1 - Tower Crane
Section 14.4.2 - Mobile Crane

6

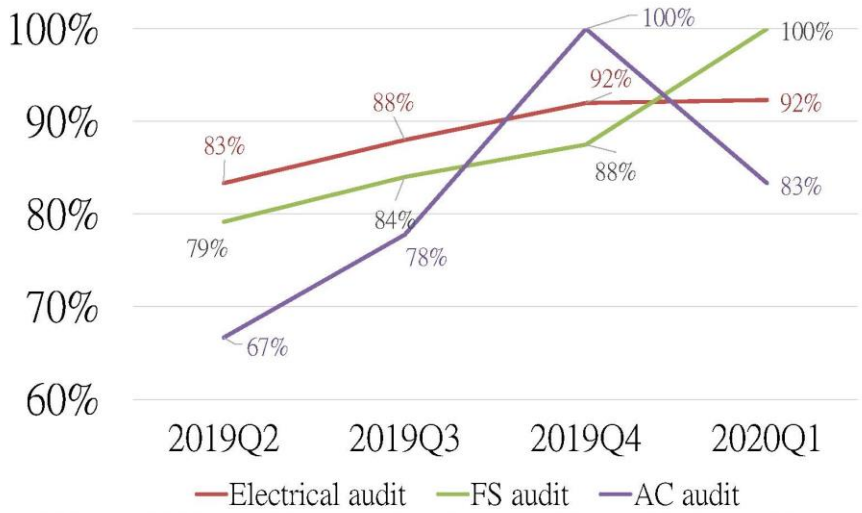
% of NSCs (EL, FS, AC) with score at 70% or above



	2019 Q2	2019 Q3	2019 Q4	2020 Q1
Electrical audit	24(24)	25(25)	25(25)	26(26)
FS audit	24(24)	24(25)	24(24)	24(24)
AC audit	8(9)	9(9)	7(7)	6(6)

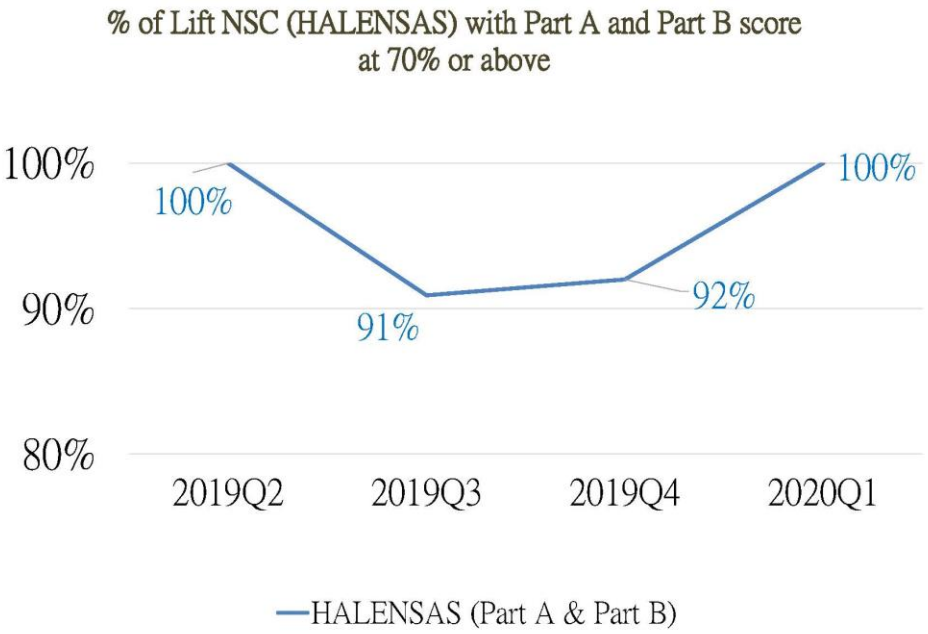
7

% of NSCs (EL, FS, AC) with score at 80% or above



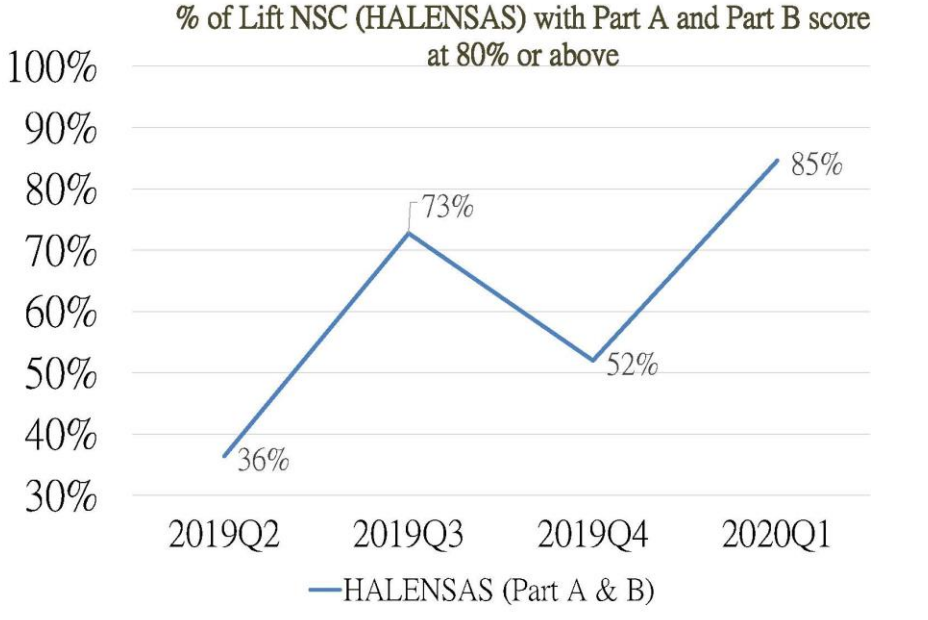
	2019 Q2	2019 Q3	2019 Q4	2020 Q1
Electrical audit	20(24)	22(25)	23(25)	24(26)
FS audit	19(24)	21(25)	21(24)	24(24)
AC audit	6(9)	7(9)	7(7)	5(6)

8



	2019 Q2	2019 Q3	2019 Q4	2020 Q1
HALENSAS	11(11)	10(11)	23(25)	13(13)

9



	2019 Q2	2019 Q3	2019 Q4	2020 Q1
HALENSAS	4(11)	8(11)	13(25)	11(13)

10

HASAS(NW) – 2019Q4 - 2020Q1
Summary on Audit Findings
安全稽核結果

Occupational Safety and Health Council
職業安全健康局

Good Housekeeping
良好工地管理

GOOD PRACTICE 良好作業方式

- Protections provided at sharp edges
- 為鋒利位置提供保護

Electrical Works
電業作業方式

GOOD PRACTICE 良好作業方式

- Designated battery charge location
- 指定的充電位置

Lifting Operations

- Lifting Appliances
- Lifting Gear

GOOD PRACTICE 良好作業方式

- Enhanced arrangement for mobile crane (RFID to prevent unauthorized access to danger zones)
- 流動式起重機的提升措施 (RFID預防闖入危險區域)

GOOD PRACTICE 良好作業方式

- Provision of secondary brake for tower crane
- 為天秤安裝第二迫力

Others

GOOD PRACTICE 良好作業方式

- Material hoist (double gate, RFID operation system)
- 開士機 (雙閘門, RFID操作系統)

GOOD PRACTICE 良好作業方式

- Three-wheel Wheelbarrow with Breaking System and Power System
- 提供具制動系統及動力系統的三輪手推車

GOOD PRACTICE 良好作業方式

- Enhanced arrangement for cement grout mixing system (enclosed cement tank, independent control room)
- 灌漿機的提升措施 (密封英泥缸, 獨立操作室)

GOOD PRACTICE 良好作業方式

- Enhanced arrangement at site entrance
- 地盤車輪進出位置安裝警報系統(預防車輛過高)

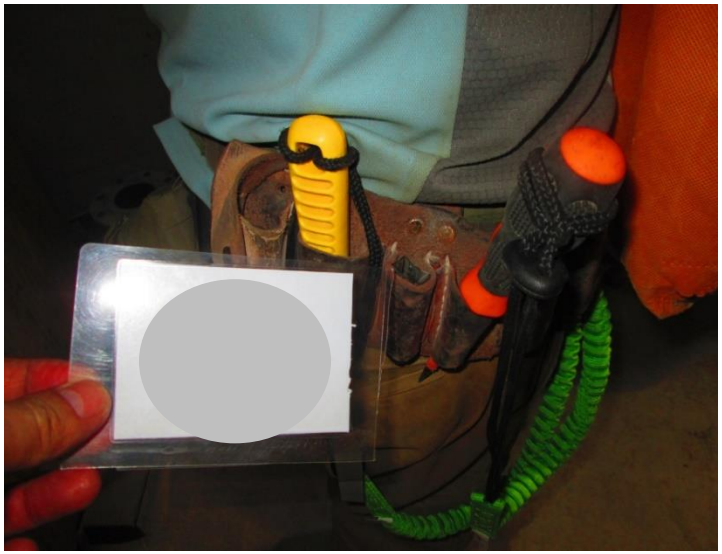
HASAS(NW) – 2019Q4-2020Q1
Summary on Audit Findings (NSC)
安全稽核結果(指定承判商)

Occupational Safety and Health Council

職業安全健康局

GOOD PRACTICE 良好作業方式

- Hand tools equipped with tool straps and stored properly
- 手提工具設有手繩及存放於工具包



HALENSAS – 2019Q4-2020Q1

Summary on Good and Bad Practices

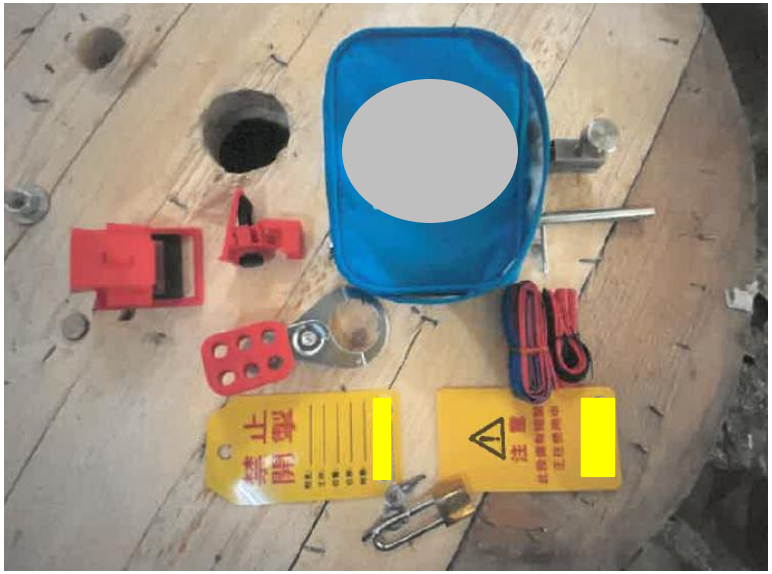
安全稽核結果

Occupational Safety and Health Council

職業安全健康局

GOOD PRACTICE 良好作業方式

- Lock-out Tag-out system implemented
- 實施上鎖掛牌制度



GOOD PRACTICE 良好作業方式

- Provision of anchorage point and properly labelled
- 機頂提供安全帶繫穩點並加上標示

GOOD PRACTICE 良好作業方式

- Provision of guardrails and toe-boards on car top
- 機頂工作平台裝有護欄和踢腳板

GOOD PRACTICE 良好作業方式

- Portable abrasive cutter with side handle
- 角磨機安有側手柄

GOOD PRACTICE 良好作業方式

- Door stoppers
- 攝門器

The END

Thank You!

Title: Site Safety Seminar for Capital Works New Works Contracts

Super Site Safety Seminar for
Capital Works New Works Contracts
16 July 2020

VO: Here is the footage from
Site Safety Seminar for Capital Works New Works Contracts
which was held on 16 July 2020

Super Senior Consultant of Occupational Safety and Health Council
Mr. Jack FONG
His presentation topic is
"Housing Authority Safety Auditing System (HASAS) Version 1.6
(For Building and Engineering Contracts)
– Findings in Quarter 4 of 2019 & Quarter 1 of 2020"

VO: The speaker is Mr. Jack FONG
Senior Consultant of Occupational Safety and Health Council
His presentation topic is
Housing Authority Safety Auditing System (HASAS) Version 1.6
For Building and Engineering Contracts
Findings in Quarter 4 of 2019 & Quarter 1 of 2020

Mr. Fong: Hello, I am Jack Fong from the OSHC
I am going to present the contractors' performance of the
Housing Authority Safety Auditing System (HASAS)
in Q4 2019 and Q1 2020
and share some good practices
Let us begin by looking at the safety auditing scores
We can see from the bar in red
that these were the scores for 2019 and Q1 of 2020
There was some improvement, so this was a good score
Let us take a look at the safety auditing scores
for Q4 2019 and Q1 2020
there were 44 projects in Q4 and 46 projects in Q1
Both Part A and B scored over 80
Q4 was 95% and Q1 was 98%
In the Critical Pass items under the safety auditing system
the lowest-scoring item was housekeeping
but the score remained consistent
The item of which the score dropped was the 'tower crane'
It dropped from a score of 97% to 95%
An area that improved was 'protection against falling objects'
where there was a rise from 84% to 87%
If we look at individual nominated sub-contracts
(Electrical, Fire Services, Air Conditioning)

the safety auditing scores for the last two quarters were good
all items given a ‘pass’ with scores of 80% or above
Fire Services scored the highest, followed by Electrical
and then Air Conditioning
In the Housing Authority
Lift and Escalator Nominated Sub-Contracts Safety Auditing System (HALENSAS)
the scores for Q4 and Q1 were good, passing all the safety checks
85% of contracts got scores at or above 80% in Q1
Now let us look at some good practices
There should be enough cover for places with sharp edges
with charging facilities in designated areas
These were contractual requirements
Nowadays, it was common to use wireless portable grinders
so it was worth installing some safety devices
In our another safety auditing programme
for Maintenance and Improvement
they have been added as contractual requirements
In the future, the new works may be asked to adopt this
An angle grinder required three safety devices
The first was a deadman switch
the machine would stop working once you release the clutch
you had to press on the switch for the machine to work
The second was an electronic brake with an electronic lock
the grinder would stop within two seconds
after you release the hold
The third was an anti-kickback device
When the grinder bumps into something
There was a reaction force to prevent
the user from spraining the wrist of the user
Let us take a look at some video clips
First, the electronic brake system
On the left was a machine without an electronic brake system
After the machine was switched off, it was still turning
On the right was a machine with the system installed
It stopped completely in two seconds
If an anti-kickback device was not installed
the machine could hurt your hand
But if you installed the device, a reaction force was exerted
so the user’s hand and wrist would be protected
RFID was also a part of the contractual requirements
Mobile cranes were required to have RFID systems installed
to prevent workers from entering danger zones
Many contractors had started to implement this installation

Also, tower cranes are required a secondary brake system
which some contractors adopted
This material hoist was used by some contractors
As Hip Hing introduced just now
we agreed that this material hoist was very well-designed
It was an enclosed design with an RFID card system
Best of all, it had a fenced working platform on the car top
When the hoist was elevated to higher and higher floors
or during the dismantling process
it provided a safe working environment for our workers
Another example would be three-wheel wheelbarrows with brakes
which could be seen on some sites
This was a grouting machine with an independent control room
This was something we could see on certain sites
Sites had alert systems at the site entrances and exits
When vehicles over the height limit pass the alert system
the alarm would ring
We all worry about drivers forgetting
to return moving cranes or jibs to their proper positions
which could be a serious problem
Soon we would introduce some standards for hand straps
We had seen some inferior hand straps
Common ropes or cable ties were not ideal
These were some hand straps that met the standard
Some good practices from HALENSAS
It was quite common to see lifts with a lockout tagout system
If necessary, there were locks and tags for use
On the car top, there were anchor points
for workers to secure their safety harnesses
with clear labels explaining their functions
There were also fences and toe-boards on the car top
The angle grinder had a side handle
fulfilling the standard requirements
and door stoppers were used
OK, this is my sharing today
Thank you

VO: Thank You For Watching