

Site Safety Forum for Works Contracts and Property Services Contracts

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PEOPLE-CENTERED ACCIDENT PREVENTION

Session B –

Maintenance & Improvement Works and Property Management

問題自心部 空全意見慣 Caring from the Heart Safety Habits at Ease

音港房屋委員會 Hong Kong Housing Authority





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Comparison with 2016 and 2017

	Numbers of Accident	Numbers of Accident	Changes In
	cases in 2016	cases in 2017	number of cases
HA Maintenance Works	5	13	+8





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Natures of Accident

Total No. of Accidents	Unintentional nature	Others
13 (100%)	9 (69%)	4 (31%)







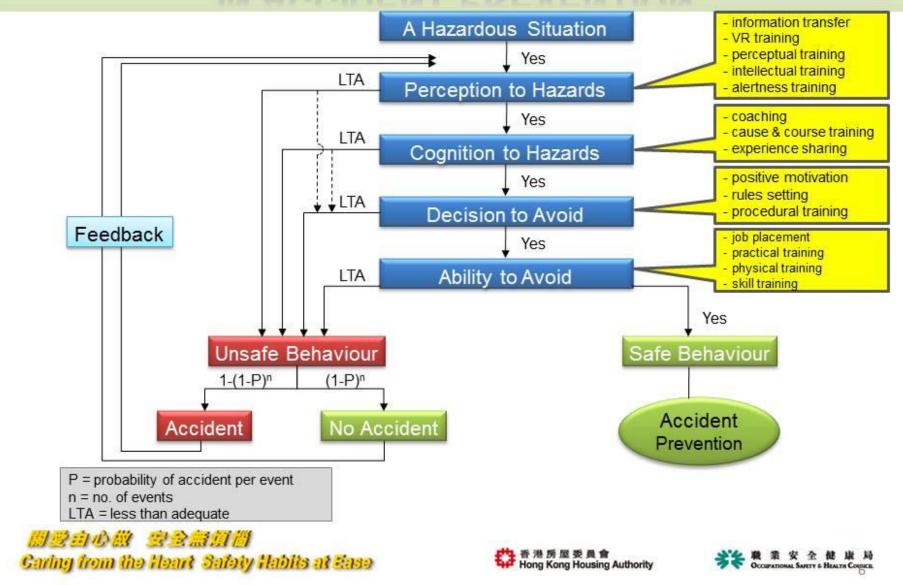
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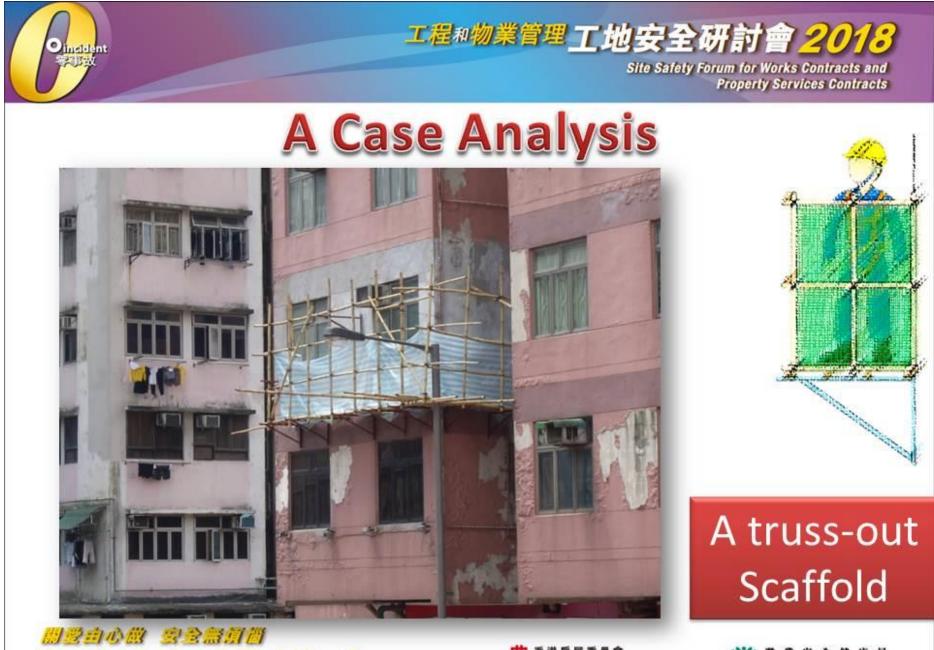
People-Centered Approach

- Human Error a nature of Mankind
- Occurs at any time and in any situation
- Control at design and planning through respective management approaches
- Reduction by (Sanders, 1987):
 - Training approach
 - Selection approach
 - Design approach

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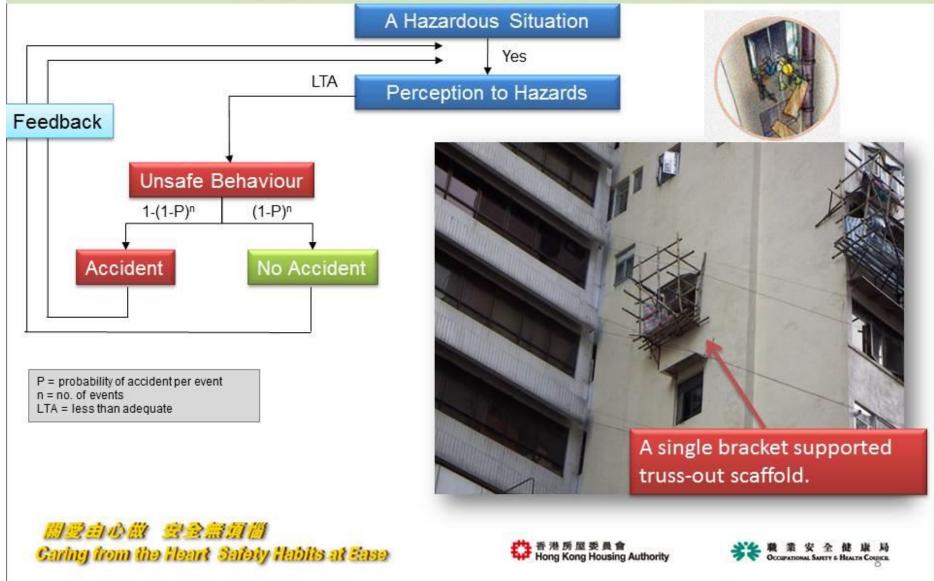


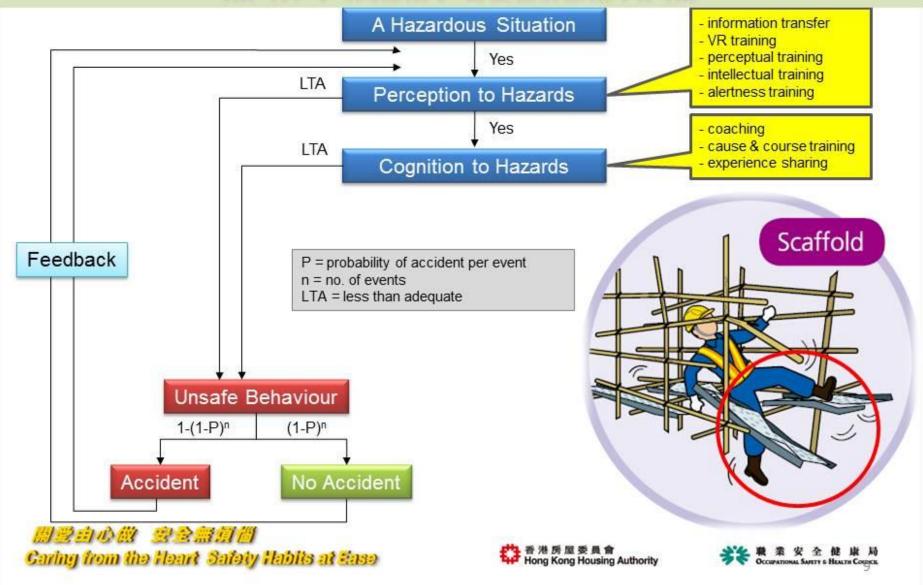


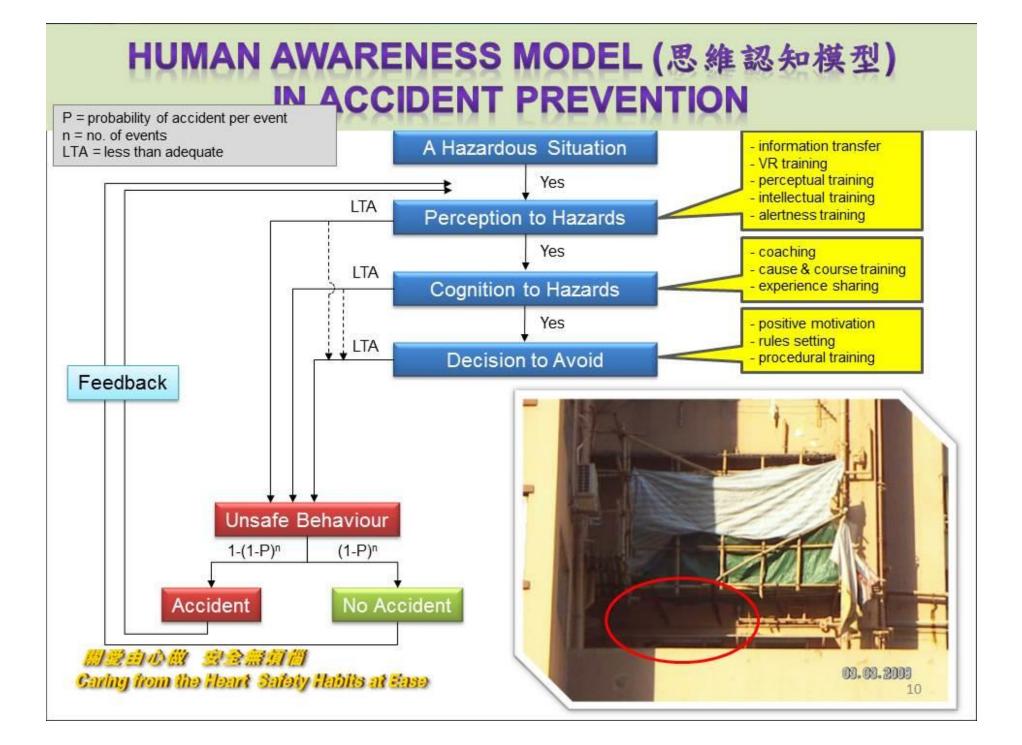


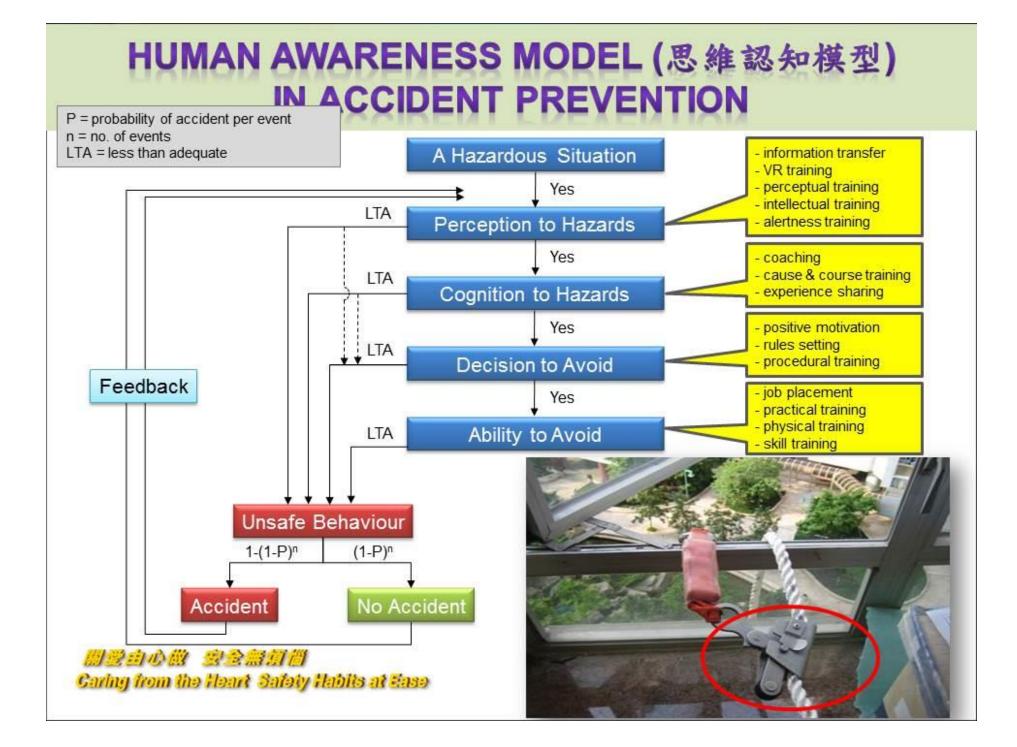
Caring from the Heart Safety Habits at Ease

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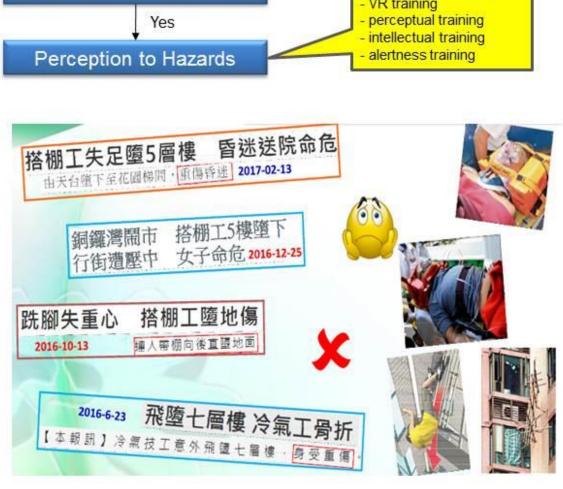




HUMAN AWARENESS MODEL (思維認知模型) IN ACCIDENT PREVENTION A Hazardous Situation - information transfer - VR training



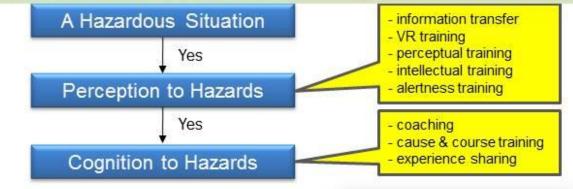
- Mandatory Basic Safety Training
- Induction training
- Virtual Reality training



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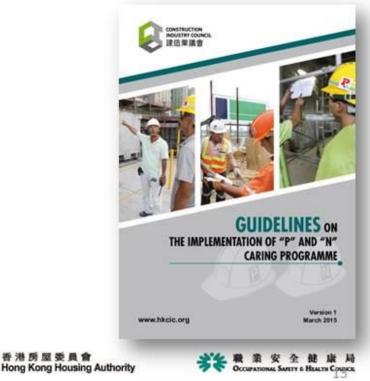
戦業安全健康》 Occurational Safety & Health Couper



Controls:

- P & N Workers' Caring program
- Job specific training (e.g. Certificate Course in Safety at Work for Repair, Maintenance, Alteration and Addition Works)
- Tool box talks

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Controls:

- Safety promotions
- Incentive scheme
- Safety ambassadors







What does Caring Culture Work?

- Management caring about employees,
- Employees caring for each other and for customers,
- Everyone caring about the company's goal, and,
- Unity gives strength and growth.



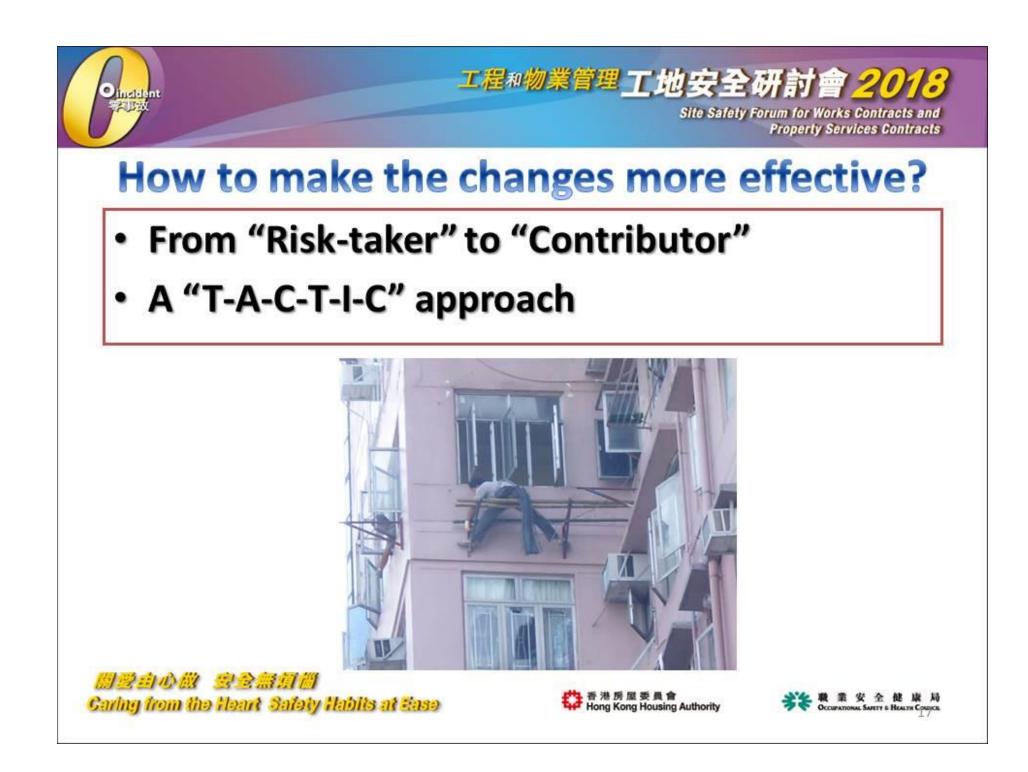


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Authentic 真摯

- People must be praised repeatedly when they are being observed steadily with good safety performance
- Constant recognition improves internal, unobservable changes in people creating a greater sense of ownership and pride



問愛自心説 空全意見慣 Caring from the Heart Safety Habits at Ease



 香港房屋委員會 Hong Kong Housing Authority **後 戦 業 安 全 健 康 局** Оссагаловал Балету с Налаги Срадса

Constant Selection

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Customised 個人化

- A generic recognition fitting anyone in any situation reflects no sincerity.
- Recognition should be customised linking personal achievement.
- Try to recognise the "Particular Person" for the "Particular Safe Behaviour".



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Tension Avoidance 減壓

- "public-labeling" may discourage others who feel they did equally but not being praised
- Deliver clear message that recognition is a continual process to those whose safety performance well exceeds the basic requirements.



問愛白心説 安全部創門 Caring from the Heart Safety Habits at Ease



工程和物業管理工地安全研討 Site Safety Forum for Works Contracts and **Property Services Contracts**

Internalized 內心化

 Allow sufficient time for employees to have the recognition be internalized and becoming part of the enjoyable personal memory that can maintain a long-term self-motivation for safe behaviour



Caring from the Heart Safety Habits at Ease

Hong Kong Housing Authority



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Characterised 特徵化

- Characterising the recognition statement with sense of honour, trust-worthiness or active caring
- Linking worker's safe behaviour with positive personal achievement and excellence





Here is the footage of Site Safety Forum 2018 for Works Contracts and Property Services Contracts which was held on 3 July 2018 The speaker is Mr. Alvin Yu Yiu-kwong His topic is People-Centered Accident Prevention in Maintenance Works and Property Management

(00:25)
Good afternoon
Almost to the end of the forum
Let me go through my slides, I hope you would pay attention to my presentation
If you have any questions, please write them on the question sheets and pass it to me after my sharing
I will definitely ask you questions. I have two quotas and will continue to give out the gifts

This is the results the Assistant Director of Housing has already shown in his presentation But I would like to interpret the result from another point of view There were 13 accidents in the maintenance works of the Housing Department in 2017 I classified these 13 accidents into two categories The first category occurred unintentionally The other incidents were under "the second category" I observed that the unintentional accidents amounted to 70% of the total What are unintentional accidents? They were mainly due to forgetfulness and loss of attention In summary, these are human errors 70% mean approximately 9 incidents What kinds of accidents were they? Under time constraint, I will explain them to you quickly

One accident happened when the worker was about to close the door after completion of works the wooden door was suddenly shut by a gust of wind pinching the finger of the worker In the second accident a hand of the worker was crushed by a toolbox when he put it down on the ground The third accident involved breaking of the ceiling light when pulling a timber board The glass of the ceiling light cut the worker's finger The fourth accident involved slipping when removing concrete In the fifth accident, the right leg of the injured was crushed by an aluminium plate when changing clothes In the sixth accident, the finger of the injured was crushed by a timber batten when he moved it The seventh accident was slippage on plastic bags when handling material on lorry The eighth accident was due to slippage on the way to the construction site In the last accident, it was suspected that the existing wound on the left foot of the injured was infected by falling cement All of these accidents are basically caused by human errors

What is human error? Human error - a nature of mankind human always makes mistake

We can't explain under what circumstances wrong doing would occur it would occur at any time in any situation I wonder whether you have any experience that you press the wrong button in the lift and such situations often happens Conclusively, how can we solve this problem? We usually adopt management approach in design and planning to reduce the opportunity of human error Some scholars have also proposed how to reduce human error through the following three approaches The first one is by training, to let the workers familiarize with the environment and work process The second one is by selection approach to select a right person who is familiar with the issue to carry out the work For example, people who couldn't control their temper are not suitable for certain tasks then they should not be appointed to do so The third one is by design approach to stop the operation when people do wrongly or when the machine malfunctions The above are the three approaches

Now I would like to introduce a thinking cognitive model that seems complicated The idea is that when a person makes a wrong act it could happen in the blink of an eye However, it involves many different processes in the brain The first level is the perception of the hazard itself Does he know the danger? He would continue to work

if he does not know the danger The second level is the understanding of the hazard itself even when the hazard occurs What is the cause of the danger? When would it happen? The third is when I know the cause of danger I need to avoid it but is my decision correct? If my decision is incorrect the accident will still happen Finally, if I know that I have the right decision whether I have the ability to solve the problem or at the end it still cannot be resolved? To understand why a person was injured due to human error We must be people-oriented understand what has happened and in which way this problem can be solved

I would like to share an incident you might have seen these incidents Please take a look at this truss-out scaffold on the external wall of the building You may not notice any problem If you were the maintenance worker walking out this truss-out scaffold can you notice the danger? It was supported by a single support I might say I don't know as I am a user Here is the problem When I went out and worked on this truss-out scaffold without knowing the danger, accident might happen Secondly, even if I knew it was erected with single support

Would I know what's wrong with a scaffold with a single support? Would it fall down? Finally it collapsed So I don't know the problem of the truss-out scaffold with a single support and go out to work Then the accident would still happen Thirdly, the risk avoidance decision a truss-out scaffold with a single support is unstable So I need to install a few triangular angled frames to support at the bottom Let's look at this photo which was however not very clear because of the sunshine Can you notice that these two triangular angled frames on the left side of the truss-out scaffold were tilted Can you notice this? Why were they tilted? As there was a water pipe the frames were too long to be installed However they knew it's unsafe to have single support so decided to install a tilted frame The strength was insufficient I made a decision to solve the problem but actually I couldn't solve the problem Finally, I knew that the truss-out scaffold with a single support was unstable so I put on a safety harness Do you notice any problem with the safety harness in this photo? The problem was that the safety harness was worn wrongly in a reverse direction It would slide down when I fell and it would not lock This is the risk avoidance ability

Now I know why people are in trouble We must know the root cause Tracing the source is our most basic requirements Firstly, how to solve the problem of human cognition everyone knows many methods in the industry including the most basic safety training such as mandatory basic safety training (green card) or induction training Even the more popular virtual reality training Some video modes are used to explain what is dangerous This can help to show what probable problems would be encountered at work The second is the cognition of hazard

How to solve this problem? You may have heard about the caring programme construction workers newly arriving at site and workers newly joining the construction industry For them we adopt a new approach They will be mentored by experienced workers In addition, this allows more observation before assigning a suitable job for a worker There is a job-specific training to teach new workers how to do the work OSHC has a safety course on repair and maintenance work There are also regular toolbox sharing sessions Today we have shared a lot of construction accidents As for decision-making people have certain knowledge but sometimes they may forget Through safety promotion activities reward programs, safety ambassadors or by setting up rules

procedures, construction methodology we can supervise workers' behaviour to prevent wrongdoing People make mistakes Finally, the ability to avoid, how to solve this problem We would have practical training to teach them how to do it In addition, we would conduct technical training and another one is by job matching Some workers' personality might not be suitable for certain work You need to know how to choose a right worker for a job The so-called "traceability" means that you must know well about the worker's problem how to teach them to truly solve the problem

So now, how does the caring culture help on this issue? It's very simple, a company is an organization and an organization has a management level If the management cares about their staff and every staff cares about their colleagues care about each other just like what Nice Property Management Limited does This will turn the company into one whole This one whole will concern about the company's goals to achieve the safety goal What can unity do? A company, an organization a force, a development to move forward

It should have ended here, but I can't help sharing more In fact, how can we help a person to have a positive development? We develop the T-A-C-T-I-C approach The first one is T which means "Timely" meaning when a staff does a good job remember to present an appreciation for the right act immediately the staff would learn that good behaviour would be appreciated

The second one is A which means "Authentic" We need to let our staff know their good safety performance would be praised not only once, but continuously Constant commendation to staff would help building up the sense of belonging As the staff understand that their good behaviour would be recognized every time With the encouragement the staff would continue to perform well As everyone wants to be commended and feels proud of themselves

The next one is "Customized" it means it will take some time to make the appreciation personal Don't make an insincere commendation It's useless to say "well done" generally Too general You must tell the staff what they have done right So that the staff would know their good behaviour would be commended Most importantly is to let them know the commendation is linked to their good behaviour Tell the staff why they are commended This "Customized" is very important

The next one is "Tension Avoidance" This is actually a problem Colleagues sometimes all work together in a team and find that you have performed very well and commend you The commended staff would be very happy However have you ever thought that the commended staff will be under pressure? Don't forget that other staff may have the same job performance Other staff may feel why only that staff is praised? Why don't you praise me? We need to be aware of this issue Hence, at the time of commendation Pay attention! Tell the staff that the rewards are not one-off As long as staff continue to have good behaviour and safety performance The commendation practice is always there Every staff will have the chance In addition, "Internalized" We need to allow time for the staff

to adopt to the new culture

Put the commendation in your heart

After work, I would think about

the commendation from the supervisor

I would be really happy

When these gradually internalize

they would become enjoyable memory

This kind of memory will become the self-internalised

for continuing to do safe behaviour in the future

Finally, I want to share "Characterized" In addition to rewarding the staff for doing well we also need to honour them with trust and caring the staff would understand safe behaviour In fact, it is good to be related to people themselves High quality, forming a sense of pride Everyone can use T-A-C-T-I-C Approach to reflect the positive direction of individuals allowing them to improve continuously Keep doing good behaviours This is the end of my sharing

Though I spoke a little bit fast I still want to ask one question I have two coupons The question is how does "Unity" benefit an organization? Bring strength and development Yes, correct The last question when and how would human error occur? I can't see who is faster This gentleman, please It may happen at any time or in any situation Good, correct Thank you

Thank you for watching

(15:03)