

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 Now is the 2nd Question and Answer session

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MC: The first question is for Mr. Ng from Customindz
Would Mr Ng please step forward to the stage?
The question is from a contractor
who says they are very interested in AI
They would like to know if AI can apply to all sites?
For the sensor system detecting people around vehicles
What is the rough cost of the cameras and alert system?
Should we contact the AI service providers
before construction work begins?
Also how long does the design work take?
And how is the worker’s training arranged?

Mr. Ng: If an AI system was to be installed on a site
AI systems are suitable for most sites
We have two requirements, based on how they are assembled
One is powered by electricity
and the other by connecting to the internet
Electricity is critical
For example, if a site has electricity supply
and it is easy to connect electrical power
for sites where no electricity is available
then using power-generating equipment is fine
We have also encountered special cases where
there was no electricity on site
and we installed some photovoltaic panels
Certainly, the solar panels had to be connected to batteries
and to foresee how long it can last
So this is not a recommended solution
especially if stable power is important
or if it is related to safety issues
we often use generators or fixed AC electrical installations

For the second question on how much time in advance is needed before installing an AI system?
If a site already has its own surveillance system then only an external system needs to be installed and that only takes one to two weeks
Basically, we will see the data in your surveillance system the angles of the cameras, the lighting and determine if they are appropriate for AI processing and we will report to you
After adjusting the camera angles the AI system can be put in use
By the way, our AI systems have the capacity to self-learn
When they are placed in different environments their performance will improve over time
Allow two to four weeks and it should reach 90% of its full accuracy
So from installation until the system is put into use it will take around one month
No special training is required

MC: Could you please answer one more question?
How much do the vehicle cameras and alert system cost?

Mr. Ng: There are economical and more costly options
An example of a cheap option is to install only one camera
In some of the more costly systems more cameras are installed all around a machine
Also, it depends on what you want to detect with the cameras
Only the people? Or do you want to distinguish between Contractor A and Contractor B?
Or do you want to see other things, like traffic cones?
The more data an AI system has to collect and process the higher its processing power and more powerful processors are more expensive
The fewer things it needs to detect, the cheaper it is and vice versa

MC: Thank you, Mr. Ng
The next question is for Mr. Fong, OSHC
Mr Fong, please
This question is about scoring
Mr Fong said housekeeping was always the lowest-scoring item so how can we improve?

Mr. Fong: We have done some sharing about this before
Some common housekeeping irregularities
include the stacking up of materials
Also, more can be done to improve
the protection around protruding items or metal bars, etc
Or in cases where materials are misplaced around the site
materials could be handled a bit better
Of course, it is hard to achieve perfection in housekeeping
given that we are dealing with the whole site
but it is something everyone should work hard on

MC: Thank you, Mr. Fong
The last question is for the Housing Authority
Would you consider adopting AI for site safety?
Maybe Mr. Timothy Lau, Senior Manager (Safety & Health)
can respond to this question

Mr. Lau: Site safety has to be kept up with the times
People cannot stay in one place and guard it all day long
in other words, we cannot place a policeman at each corner
That is why we share the technology today
If these technologies continue to develop and reach maturity
then we should adopt more of them
to help us manage site safety
Right now, such technologies have emerged on the market
so we are considering
where we can adopt them to enhance site safety
So we are now beginning to consider which aspects
we can make good use of
Thank you

VO: Thank You For Watching