

Here is the footage from “Site Safety Seminar for Capital Works New Works Contracts”, which was held on April 8, 2014

The speaker is Mr. Ray TSUI, Acting Senior Consultant of Occupational Safety and Health Council

His presentation topic is “Benchmarking Study on Infrastructure Projects Safety in Korea”

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This Korea Study Tour on occupational safety and health was organized by Occupational Safety and Health Council. 20 participants in the industry joined the study tour. Some of you here have joined as well. As soon as the visit was over, Occupational Safety and Health Council organized a seminar as usual after returning to Hong Kong to share what was done during the visit and new information on the safety in construction industry.

Later we will let you know the details and arrangement of the seminar. I hope you would join. Through this introduction, I would like to give you an impression and let you know the highlight of the seminar and enhance your interest to join. This Korea study tour focused on large-scale infrastructure construction projects.

As you know, various kinds of infrastructure are being carried out in Hong Kong. Safety is what we should pay attention to during the construction, that is why we focus on infrastructure projects in Korea. I will tell you why we chose Korea later.

This is a health organization of occupational safety in Korea. This organisation is funded by the government and of considerable size. They have just moved to Ulsan which is near Busan where the scale of port construction is larger than that in Hong Kong. They are also building a cross-sea bridge. Since they do not have railways, various kinds of railways are now under construction. Moreover, many tunnel workers are undergoing too. This is why we chose Korea as we could refer to their experience.

The visit has just been organized late last month, from 17th to 21st of March. For sure I need to tell you what we have covered in the visit from Monday to Friday. As you can see, we participated in many activities. I will give you a brief introduction, including the situation of organizations mentioned.

The occupational safety and health organization in Korea is similar to Occupational

Safety and Health Council. It offers consulting services, conducts researches and carries out subsidized schemes on sites in Korea, etc. They are also committed to other works such as inspecting sites for site improvement. Besides introducing the organization, we will share on other issues in Korea, such as how they carry out accident preventive measures, the country's policy and strategy, these are all closely related to the organization's work.

In the construction industry of Korea, how they carry out the works according to their policy and the latest technology development were introduced in class. In terms of the number of accidents in Korea, the pattern resembles that in Hong Kong. For example, the number is on the decline. They aim to reduce the occurrence of accidents by improving the hardware and implementation of safety management.

Now, the procedures to reduce human error steps by steps are similar to those in Hong Kong, which are also suitable for our reference. These were the activities on the first day.

On the second day, Tuesday, we got to learn about safety management system in Korea with focus on risk assessment. We study the new methods and measures taken in their risk assessment. Korea has established their own safety management system. It is in fact established by the said occupational safety and health organization in Korea. The organization also offers consulting services to local construction companies to carry out safety management works, including establishment of system, auditing and certification. Details will be covered in the seminar organized later. We did not just study in the classroom in Korea. We have visited some construction sites since Tuesday, including this first visit.

As you can see, it is a tunnel project. These are the photos for you to know how Korea carries out the construction work and the safety measures taken to prevent accidents. They shared a lot with us in Korea. We will share what we learned in the seminar organized by Occupational Safety & Health Council later. This is the work we visited on Tuesday.

On Wednesday, we learned about electrical safety in Korea and the application of the latest information technology. You may know that the technology research development and designs are advanced in Korea. For example, during our visit, we learned how they use mobile phone to operate tools and check whether electrical wires were electrically charged. For example, they can simply put the mobile phones

on the ground to check nearby underground electrical wires, the phones would emit warning sounds to let people know the lines were charged and alert people. They also introduced us new measures in electrical safety and application of technology.

They also spent a lot of time on the topic of working at height, such as how they manage and avoid accidents when working at height. On Wednesday, we continued visits construction sites, we visited a site of bridge. It was a cross-sea bridge in Ulsan. According to their description, if I remember correctly, in terms of a single span, this cross-sea bridge will be one of the five longest cross-sea bridge in the world after construction. So we visited this site.

Following is the equipment for safe lifting and design for safety. From how we consider safety from the project design stage to avoid accidents during construction due to design problem and to protect maintenance workers after construction. Relevant information was also provided in this Korea Study Tour. They also introduced us how innovative technology was applied in occupational safety and health.

As said, they advocate technological development. Samsung, the organization we visited is one of the leading organizations in terms of innovative technology. We also shared at and visited their building section. We learned how they use the interactive system such as technology of 3-dimensional model as training material and risk assessment. In the last part, we visited a safety training centre established by the largest construction company in Korea for training its own workers. There are many new facilities inside. Apart from lectures in classroom, there are also facilities for workers to experience. Such as, letting them experience falling from height, collapse of working platform and strike by moving machines. There is also a 3D virtual reality cinema for workers to understand situations when accidents happen. These are training facilities in Korea.

Now let me show you some photos. The information so far is preliminary. When we reached the site, we found the environment was very tidy. They also explained to our members the situations. This is the site of a tunnel project we visited. This is its environment. As for another bridge project, as you can see, the position of bridge has already been set. They have also started lifting and installing bridge components. This is the location when we visited the bridge project. This photo shows the safety training centre we visited. They had training for working at height and provided experience equipment like simulated experience of a collapsing working platform. Workers could stand on it where the part was movable.

By feeling the sudden collapse of working platform, the workers can realize the importance of a stable working platform because collapse is a serious matter. This one is interesting. As you can see, it is a part of an excavator. Soft pad was wrapped around the machine. The machine could move. Workers could stand here because soft pad was wrapped around here. They could get the feeling when a machine strike. Of course they were protected by the soft pad. This was the situation they shared.

We also introduce the seminar on the experience sharing of this Korea visit which will be held tentatively on 22 May (Thursday). This is a luncheon sharing session, from 12:30 pm to 2:00 pm on 1st floor, Crowne Plaza Hong Kong Kowloon East Hotel in Tseung Kwan O. Two of our speakers also participated in the visit, including our Council member Mr CHEUNG Hau-wai, SBS, JP. He will share with us the safety measures he observed on site. Another speaker is Mr. Lo Wai-Leung, Deputy General Manager (Safety & Security) of Sanfield (Management) Limited, who will present in the second section. Apart from practical site situation, he will also share safety management system and innovative safety measures. Mr. Lo will talk about safety management system and innovative safety technology. Let me advertise a bit in advance. You are welcome to join our seminar on 22 May. Details will be announced on Occupational Safety & Health Council's website. Please stay tuned for that. This is the end for this part. Thank you.