



A WORKER WAS TRAPPED BETWEEN A TRUCK AND AN EXCAVATOR AT A CONSTRUCTION SITE IN KWAI CHUNG

On 25 July 2024, a worker was trapped between a truck and an excavator at a construction site in Kwai Chung. He was certified dead at the scene. The Construction Industry Council (CIC) would like to deliver this safety message for your attention. It would be appreciated if you could distribute the message below to your fellow members, relevant personnel or other industry stakeholders where appropriate. Thank you very much.

Common Accidents

1. Failure to stay away from fatal zone when working.
2. Failure to provide proper fencing and suitable warning notices for the fatal zones.
3. Failure to properly design the site layout to segregate the areas which the mobile plants may operate or move.
4. Failure to provide necessary safety information, instructions, training and supervision to the workers concerned.
5. Failure to conduct dynamic risk assessments and take appropriate safety measures in response to changes in the environment and procedures.



Critical Control Measures

1. Prior to the commencement of works, construction team should conduct risk assessments to identify the risks of struck or trapped by a moving or slewing mobile plant in the workplace and implement the demarcation of fatal zone.
2. No unauthorised people should enter the fatal zone and the lookout man should stay outside the fatal zone to ensure that the fatal zone is clear of pedestrians at all times.
3. The mobile plants should be equipped with required safety devices such as rearview mirror, CCTV, ultrasonic devices and alert system, etc.
4. Ensure that the safety devices are regularly inspected, tested and properly maintained in accordance with the manufacturer's instructions to ensure that they are in safe working condition before use.
5. Park the vehicles in designated parking spaces which are reasonably level.
6. Apply the parking brake of a vehicle firmly during parking.
7. Use appropriate Smart Site Safety System (4S), for example, install Dangerous Situation Alert System. If a worker is encroaching the fatal zone, siren and signal light from the system will be activated, thus securing workers' safety.
8. Provide all workers concerned with the necessary safety information, instructions and training, and ensure that they are familiar with the safe work procedures of the mobile plant operation.



SAFETY ROLES AND RESPONSIBILITIES OF KEY STAKEHOLDERS IN THE HONG KONG CONSTRUCTION INDUSTRY

What if all stakeholders can act together and take one step further to fulfill their roles and responsibilities, can similar accident be avoided?

- In the design stage, designers and engineers should consider the working environment and design the site layout properly, including planning the fatal zones, and providing pedestrian-only routes as well as traffic routes with designated parking spaces in the construction site.
- During the construction stage, construction team should strengthen the coordination with transportation suppliers to ensure that the transportation arrangement on site is proceeded according to the plan and under effective supervision.
- Work team shall check and ensure the safety signage and barriers selected are suitable for the intended purpose and have been properly installed and maintained.
- Workers should follow the developed safe working procedures, in case identifying any changes in the construction process, report it to their supervisors and take action against it immediately.

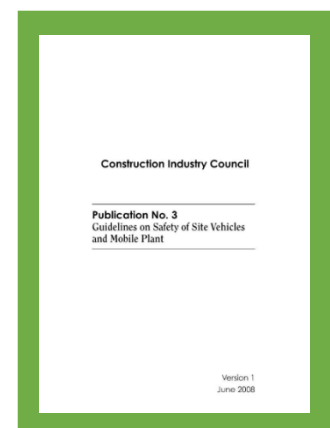
Reference information for sharing



Reference Material on Fatal Zone Management



Reference Material - Guide to Smart Safety-Related Technologies for Use in Construction Works



Guidelines on Safety of Site Vehicles and Mobile Plant



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