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Supporting Organization of the Year 2022



香港職業安全衛生協會
THE HONG KONG OCCUPATIONAL SAFETY AND HEALTH ASSOCIATION

President's Message

By Sam Sum,
President of HKOSHA



Dear Members,

It is my honor to be the President in the last 2 years under a difficult time of pandemic. I wish all of you and your beloved family and friends to stay safe and healthy, also a prosperous Year of the Tiger!



Since the outbreak of the pandemic at the end of 2019, along with various industries we have to demonstrate resilience and agility to suit the fast-changing pandemic situations. We have adopted webinars to continuously share health and safety information with members by various local and international speakers. Also we have spent significant amount of

time and resources to revamp our website to enhance user experience. We have tried our best to optimize the functions in the new website. We will launch the website shortly and your comments are welcome.

Recently, not only COVID-19 cases but the number of serious industrial accidents also surging up, which both situations need more efforts from health and safety practitioners to handle. The HKOSHA would continue to act as the voice of our members to liaise and collaborate with various stakeholders, e.g. Government Bodies, Partners from local and overseas OSH Associations, Institution, etc. for a brighter future in health and safety. Let's keep our momentum and efforts to tackle whatever challenges we have with the courage like a Tiger!

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Experiencing New Features of Revamped HKOSHA Website

By Bobby Lee, *Hon. Treasurer of HKOSHA*



With the successful completion of HKOSHA website revamp in December 2021, members can now access the new website <https://hkosha.org.hk> through different platforms including Apple or Android mobile phones, Windows®, macOS® to obtain one-stop-shop services under the new features installed in the website when logging into their accounts.

New Features including:

- Update membership information;
- Register for any events (Technical Visit / Seminar/ Webinar / Conference, etc.) with the option to amend or cancel registration;
- Manage your HKOSHA Continuing Professional Development (CPD) by viewing the past CPD records and downloading the attendance certificates any time;
- Pay annual membership fee or CPD via online payment gateway (Visa / MasterCard / American Express or PayPal);
- Download Safety Bulletin, presentation materials, etc.; and
- Share and discuss safety and health best practices under the "Forum" section.

In addition, when members complete the registration for an event on the website, an email notification would be sent to members as confirmation and record purposes. After attending the event, the Certificate of Attendance would be available to download from the website. We hope such paperless and user-friendly registration process could provide additional convenience to members.

Do act now to surf the HKOSHA website and experience the above one-stop-shop services!

Sharing of Safety and Health Information in HKOSHA Facebook

By Timothy Wong, *Executive Council Member of HKOSHA*

In recent months, we have made good use of existing social media – HKOSHA Facebook to post various safety and health (S&H) information in a timely manner. The information shared including accident news, relevant S&H legislation/guidance notes, S&H training materials/papers published by renowned institutions and pandemic measures related to construction sites, etc. All members can access the information anytime anywhere through computer or mobile device. Do keep yourself abreast of up-to-date S&H information and give a "Like" and "Respond" to the posts in HKOSHA Facebook as an encouragement and appreciation for us to post information through this channel.



Use of Independent Lifelines and Anchorage System for Fall Arrest

By Mr. Tommy Chan, Member of Temporary Work Forum



Author's Profile:

Mr. Tommy Chan has been working as a safety practitioner in both contractor and client companies for over 15 years. He is the member of Temporary Works Forum (TWf). TWf promulgates to learn from incidents and to improve the construction practices to avoid tragedies from happening. Its objective is a zero-accident construction industry.

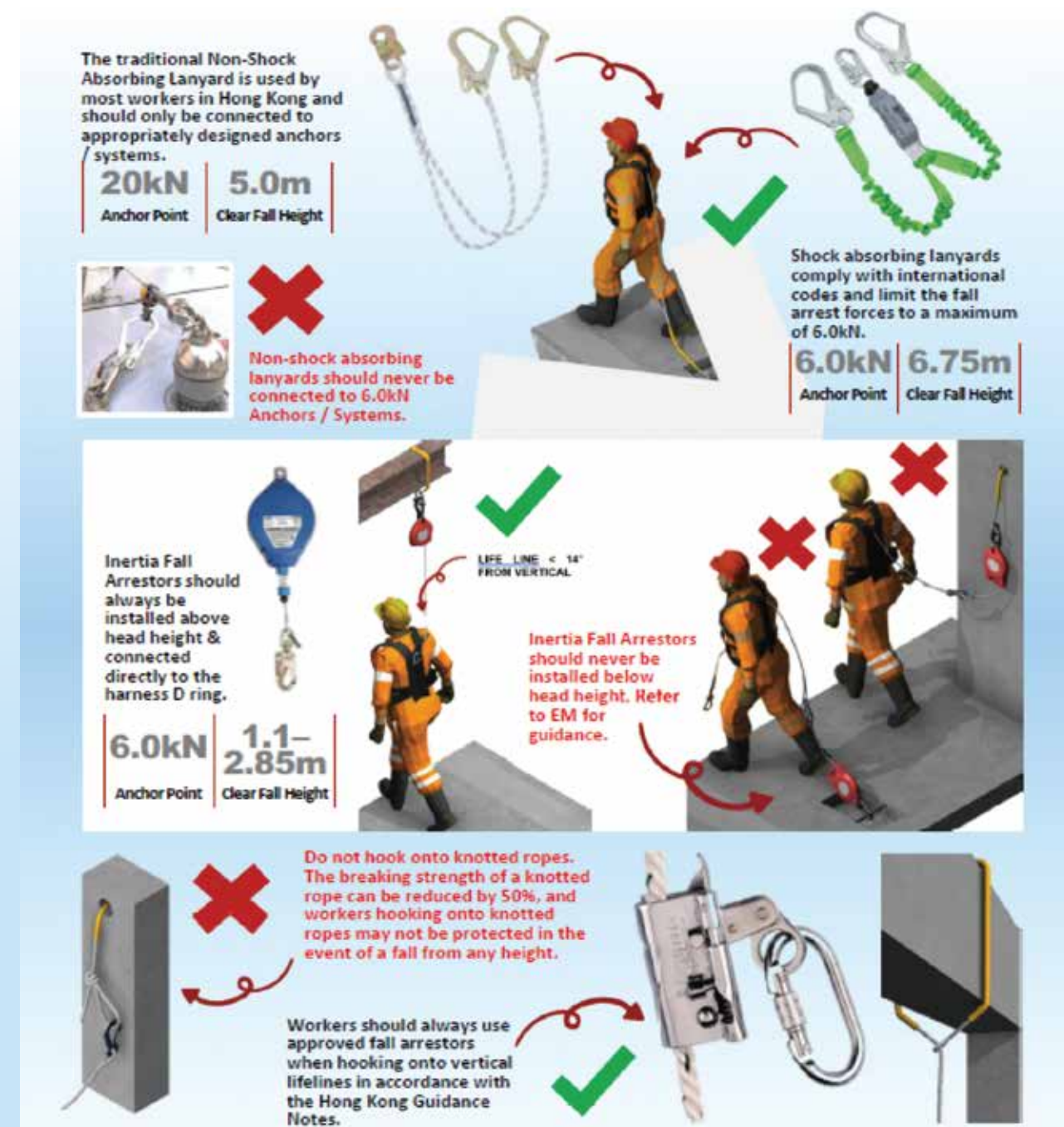
HKOSHA invited Mr. Chan to share on "Use of Independent Lifelines and Anchorage System for Fall Arrest" in the webinar on 10 December 2021.

Mr. Chan briefly presented (1) the fall arrest force, (2) vertical life line and effect of rope knot, (3) permanent and temporary anchor and (4) temporary fall arrest and restraint system in the webinar. He also shared one of TWf's publications on "Lifelines and Anchorage Systems" and concluded the following key messages:

- Fall clearance must be calculated based on actual equipment used
- Hierarchy of control
 - Collective fall protection always comes first
- Anchor
 - With shock absorber 6kN (Unfactored)
 - Without shock absorber 18 - 20kN (Unfactored)
- Retractable Fall Arrestor
 - Make sure it could be effectively engaged

Mr. Chan further shared the "Fall Arrest Guidance Note" below with members after the webinar.

- ◆ Fall Arrest Systems do not prevent falls and they should only be used when no other practical means of access is available.
- ◆ This guidance note highlights the two fall arrest systems commonly used in Hong Kong and the reduced breaking strength of knotted ropes.
- ◆ Many new buildings in Hong Kong have permanent 6.0kN anchors and fall arrest systems that comply with international codes and are only compatible with shock absorbing lanyards. Workers should never hook onto permanent works fall arrest anchors and systems without appropriate lanyards / Engineering Manager's approval.



防塵減塵我有計 健康第一沙塵仔



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使用產塵量較少的工具
附設吸塵系統的工具



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霧化減塵



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報名 / 查詢：2581 0617



於使用中排污渠的密閉空間安全操作 (Confined Space Safety Operations in Live Drainage)

作者：吳偉麟先生 - 輝力香港有限公司的高級工程師



作者簡介：

吳偉麟先生是輝力香港有限公司 (Freyssinet HK Limited) 的高級工程師。他擁有25年以上為各類渠務維修工程作為管理人的豐富工作經驗，他監督工程小組處理於使用中排污管的各類工作挑戰。

本會邀請吳先生於2022年2月10日的網上研討會中與會員分享於使用中排污渠的密閉空間安全操作。以下是吳先生於網上研討會的內容摘錄。

死亡事故

回顧過往二十年間，有關渠務工作之密閉空間工業意外時有發生。類似意外過去五年有減少跡象，可惜2021年底接連發生了兩宗嚴重渠務密閉空間工業意外，一共做成三死六傷。如果單純比較建造業整體意外率，雖然涉及渠務密閉空間工作意外數字不多，當中死亡個案亦佔整體數字中少數，但接連兩次嚴重事故引起業界及公眾高度關注，再次敲起了密閉空間工作安全的警號。相比其他類型建造業工業意外，密閉空間可能出現的危害較難察覺，出現時亦無聲無色，殺人不見血，所以會對人產生更大的恐懼感，迴響更大。



政府自七十年代訂立法例規管密閉空間工作安全，多年來亦因應不同事故對法例作出多次修訂。法例內清晰訂明密閉空間工作安全措施，法例亦明確指出密閉空間內有機會出現之「指明風險」，文字上演繹的「指明風險」涵蓋所有不同類型密閉空間可能出現的危害，當然包括排水渠內之可預見風險因素。

渠務工作 專工專責

渠務工作涉及範圍非常廣泛，由鋪設渠管，結構檢查，清理淤泥到各種保養維修，當中工作涉及操作高壓水機、閉路電視、電動工具、氣動工具、燒焊等等多不勝數。於使用中排水渠設施內進行上述工作使風險元素變得更加複雜。

一般性「密閉空間核准工人訓練課程」內容本身應用於廣義密閉空間，教材並非專門為排水渠設施內工作而設計之專項訓練，將廣義密閉空間理論應用於使用中排水渠環境，文字上當然簡潔地涵蓋一切可能發生狀況，但用簡潔文字演繹卻顯得更加複雜，深化現有「密閉空間核准工人之從事渠務署工程安全訓練課程」(俗稱DCW)並擴展應用於所有排水渠工作絕對值得考慮。

筆試考武術

金屬棚架技工，焊接工等等工藝技術認證，未計理論及實習課堂，單單考試最少都花上幾小時作實務測試，但現在不論是一般性密閉空間課程或渠務署專屬課程，工友只需要安坐課室八小時，完成選擇題考核便能獲得密閉空間核准工人認證。

回顧課堂上教學使用之學術性文字，於法律層面上當然演繹得完美無瑕，但完美的文字演繹可能已經超越前線工友閱讀理解能力，我們必需照顧工友適度使用行業術語進行實務教學。

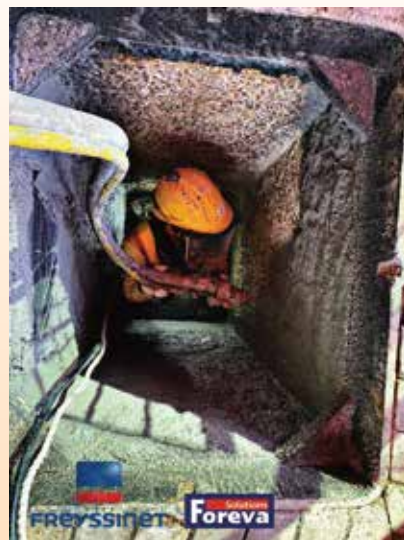
課堂上對於密閉空間實際操作訓練亦比較薄弱，我也承認將密

閉空間訓練實務化存在一定難度，除氣體測試

及安全防護裝備操作能轉化成實務考試外，其他方面教學及訓練實務化的確需要更深入研究。但課堂中讓每一個工友充份感受配戴防護裝備之後會遇到的種種困難，已經是一個重要體驗。一些持份者亦曾經向我表示對實務教學及考試衍生責任之種種憂慮：「教育」本身已經是一種責任，業界領導者責無旁貸。

以機械取代人手仍有很遠的路要走

面對極端天氣，市區重建等，我們正不停加重現有排水渠負荷，加上城市設施老化，排水系統必需要進行保養、維修及改善工程。每當工業意外發生後，一些學者或業界代表經常打著「以機械取代人手進行密閉空間



高風險工作」的美滿口號，其實業界過去二十年已經添置大量機械盡量取代人手工作，例如使用大型洗渠機器清理渠道及閉路電視進行基本結構檢查等等，渠道保修方面亦盡量採用無開挖方式進行，減低以人手進行高風險工作，我們的社會絕對有能力承擔更先進更昂貴的機器，但事實現今科技之下機械並未能擔當所有角色。「有得揀，我都唔比同事落去」，我們作為土木工程師，不得否認上述事實，並且應該於未能應用機械取代人手時專注執行密閉空間工作風險評估，盡力實踐風險管理中「消除危害」一環。

需要更有效的風險評估

「密閉空間合資格人仕訓練課程」內容有著「核准工人訓練課程」同等基礎，同樣地訓練課程涵蓋廣義密閉空間，相對其他工業處所密閉空間的指明風險，渠務工作環境種類及箇中危害有更多組合，而且環境變化急速，當中帶水設施更加難以實行隔離措施。回顧過往部份意外都存在工作空間本身或工作空間以外之狀況急劇變化所帶來之致命因素，所以渠務工作合資格人仕訓練相比核准工人訓練有更迫切需要制訂渠務工作專屬課程。任何涉觸渠務工作人仕，包括管業界別，工程師，甚至安全主任都應該認知相關風險評估知識，「要知危險 才懂安全」。

渠務工作有著一個特性，除一些定點工作的大型工程外，連同公、私營渠務工作其實每日都有數十甚至上百工作小隊遊走全港大街小巷，工作小隊只由二至五人組成，風險評估及安全措施全賴小隊自行處理，回顧過去意外發生地點同時因應業界實際操作方式，在大數據協助下，如果各業主及政府部門能夠為其下渠務設施及沙井等設施訂立風險級別制度(類似山泥傾瀉風險管理系統)，將一等已知高風險設施歸類，已經可以大大減低意外數字，且更有效調配監工資源，確保施工安全。



「人對陌生環境產生恐懼」，對渠務工作空間及四周環境不熟悉情況下作出風險評估，措施可能繁複且無效，同時亦可能忽略了相關危害，施加防護裝備始終不及消除風險有效，亦須注意防護裝備也可以帶來其他工作風險。



「人對熟悉環境放下戒心」，當風險評估盲目將所有本身低風險的渠務工作環境視作高風險處理，工友會因為種種附加安全要求而變得無所適從，更加嚴重則令工友無視當中隱藏風險而將自己置身於致命危害之中。一個有效的風險評估配上適度安全屏障才是安全施工的重要契機。

事緩則圓，忙中出亂

於使用中污水渠施工，工作本身已經存在多方面挑戰，即使再困難也不可能放棄安全措施。但以我過往經驗，以渠務工人趕工來換取公眾多一晚清靜睡眠，以渠務工人趕工來換取減少一小時交通擠塞，以渠務工人趕工來換取不排放一滴污水到海港等等要求，上述事件每日也在發生，不停去壓縮工作時間。但我們萬萬不能忘記香港建築歷史上獲得之教訓，趕工往往是一道索命符。

出路

任何意外調查都必須要找出「根本原因」才可以制定措施避免意外再次發生，任何意外都不可能只得單一成因，補救措施必需標靶式對症下藥；我曾經以二判身份承判一項簡單清洗渠筒工作，該工作業主機構承判商要求填寫一份超過五十頁的工作風險評估；風險評估文件策略周全、密不透風，工作守則亦詳細得不能盡錄。換來的是總承判商將同類工作一式一樣的安全文件呈交審批，做到紙張上絕對安全，但實際施工安全方面只有輕描淡寫。前線工友將切身安全交托予一眾管理人員，我們需要的是更貼地的安全風險評估及更簡潔而有效的安全防護措施。將三十年不同成因意外經驗所制訂的各種補救措施，不經篩選、一刀切地全數強加施行於所有「密閉空間」工作，換來的只會有另一次意外發生；我們是時候作出革新改變，為渠務設施訂立風險級別制度，全面加強渠務工作密閉空間的安全教育。

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HKOSHA NEWS

New Members

As of end of February 2022, there are 450 members in HKOSHA.

The following membership applicant were approved in January and February 2022

A. Approval of Membership

Name	Grade of Membership
SO Wing Yan	Student Member
CHAN Hang Sang	Professional Member (Safety)
TSANG Chi Fung	Professional Member (Safety)

B. Membership Upgraded

Name	Grade of Membership
TANG Wing Hong	Fellow Member



建造業前線管理人員之職安健領導及溝通技巧

OSH Leadership and Communication Skills for Site Supervision (Construction Industry)

本課程旨在讓建造業前線管理人員能掌握和應用有效的領導及溝通技巧，鼓勵及推動工友合作，在工作時遵守安全要求，減低出現不安全行為的機會，繼而提升工地的安全表現。

課程內容：

1. 建造業前線管理人員在職安健方面的角色與責任
2. 如何作為安全領導者
3. 如何與工友在主持早會、查詢危險行為、鞏固安全行為時溝通
4. 如何應用良好「溝通」、「說服」及「指導」技巧
5. 如何在動態風險評估時推動工友發揮情境意識
6. 個案分享及實習

目標學員：建造業安全督導員、管工及其他負責管理工地的人員
授課期：共須上課7小時 (完成課程可獲「認可安全督導員(建造業)」專業進修計劃之7小時訓練時數)
入學條件：學員須具有閱讀及書寫中文的能力並具建造業工作經驗
授課語言：粵語輔以中文講義
學費：\$490 (原價) / \$440 (職安健大使及綠十字會員學費) / \$245 (中小企學費)

請瀏覽本局網頁 <http://www.oshc.org.hk/tchi/main/training/> 下載有關課程資料及報名表格，或直接按「會員專區」於網上報名及繳交學費。