



HKFEMC

香港機電工程商聯會

安全峰會

SAFETY SUMMIT



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香港機電工程商聯會

**The Hong Kong Federation of Electrical
and Mechanical Contractors Limited**





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INTRODUCTION

簡介

BACKGROUND OF HKFEMC

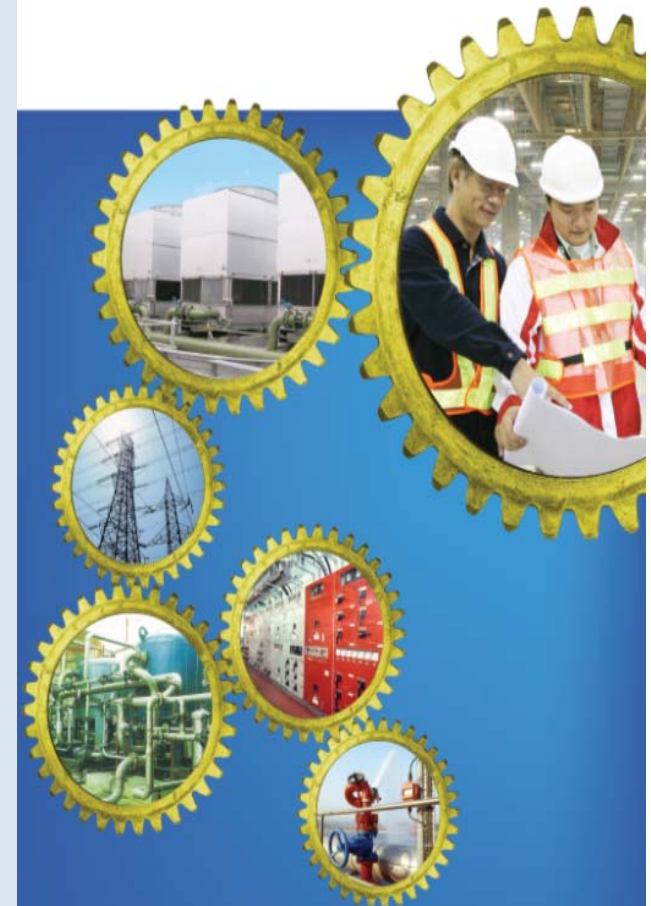
- Founded in 2001 as a non-profit making body by six major trade associations in the E&M industry.

由本港六個主要機電業商會於2001年成立的非牟利機構。

- Constitute a common platform for stakeholders
建立一個受業界廣泛支持的統一平台。

- Provide a single consolidated channel for various bodies to conduct dialogue with and exchange views.

提供直接的溝通交流渠道有效處理行業一切事宜。





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OUR VISION

我們的抱負

ZERO ACCIDENT VISION

- Safety is a top priority concern to HKFEMC. A comprehensive range of initiatives to nurture an E&M safety culture underpins our vision.

商聯會以推動安全為首要職責，致力倡議全面性機電工程安全文化。

- We leave no stone unturned to promote communication and facilitate coordination in our E&M supply chain and in doing so to imbue proactive culture in the industry.

全面加強機電業界之溝通和協調及促進主動積極的安全文化。





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PROBLEM & ANALYSIS

存在的問題及分析

NATURE OF E&M WORKS

- E&M works is often conducted in parallel with many other specialist trades under highly constrained environment, allowing no hiccup from any single trade causing delay to the whole chain. Precise coordination is most challenging.

機電工程難免與其他多個工種同時在一個狹窄空間內施工，加上繁複多變的特性，精確的管理實在是一項挑戰。

- Safety hazards exists in installation, testing and commissioning, operation, maintenance and repair stages.

安全風險常存於安裝、調試、操作和維修等工序。



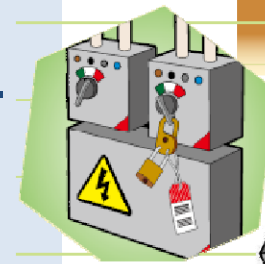
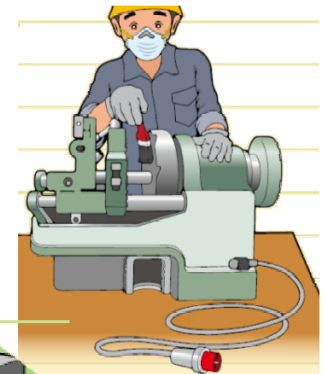


PROBLEM & ANALYSIS

存在的問題及分析

SPECIFIC HAZARDS OF E&M WORKS

- Work at height including ceiling works.
天花工程、喉管、電線、燈喉或槽管安裝的高空工作。
- Welding and cutting for ductwork and pipework.
氣體焊接、火焰切割及電弧焊接。
- Testing and maintenance of E&M systems.
測試保養和維修電力設備及機電系統。



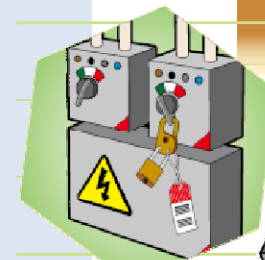
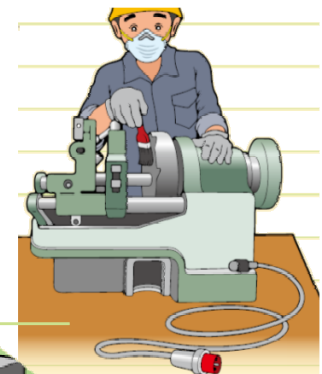


PROBLEM & ANALYSIS

存在的問題及分析

SPECIFIC HAZARDS OF E&M WORKS

- Maintenance of machinery or mechanical system.
保養、維修及操作機械裝置，例如電梯及自動扶梯。
- Confined space operation inside water tank, sewer or pipeline.
水箱、水渠、管道等密閉空間作業。
- Installation, handling and maintenance of compressed gas cylinder.
安裝、儲存、檢查、運送及維修壓縮氣瓶。



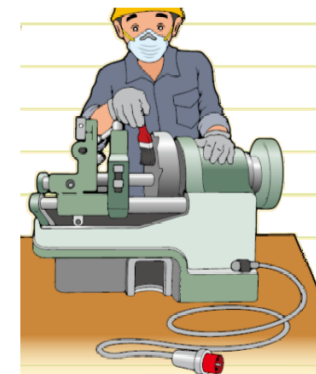
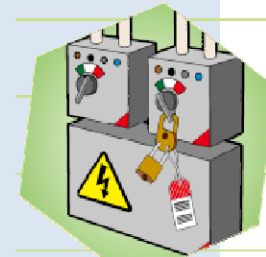


PROBLEM & ANALYSIS

存在的問題及分析

SPECIFIC HAZARDS OF E&M WORKS

- Lifting or leveling of E&M equipment.
使用起重裝備吊運重物及大型的組件。
- Use of portable hand tools.
使用便攜式工具。
- Use of hazardous substances for painting, adhering and cleaning.
使用危險品進行油漆、附貼及清洗。





PROBLEM & ANALYSIS

存在的問題及分析

KEY CAUSES OF ACCIDENTS

- Poor coordination between trades and crews, inadequate risk assessment, experience and supervision.
沒有與各行業及團隊事先取得充份協調，沒有足夠的風險評估、培訓、經驗和監管。
- Poor communication, lack of planning and coordination to prevent incompatible activities from being performed at the same time.
沒有預先規劃和溝通以避免抵觸性的活動同時進行。





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PROBLEM & ANALYSIS

存在的問題及分析

KEY CAUSES OF ACCIDENTS

- Inadequate pre-work assessment of working conditions and lack of safety systems for high risk E&M works.
缺乏施工前評估及缺乏機電高危工序的安全作業系統。
- Highly compressed programme leaving little time and space for proper work execution.
過份壓縮的時間表令施工風險增加。





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SUITABLE MEASURES

適當的措施

E&M SAFETY MANAGEMENT

- Pre-work risk assessment is crucial to reduce risk.
施工前的風險評估至關重要，以減少風險；必須詳細考慮所有客觀環境因素、工作空間、工作內容及工時等，然後才可施工。
- Elimination of unsafe act or condition through coordination and communication between trades and crews.
透過協調和溝通消除同行及團隊的不安全行為及施工環境。





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SUITABLE MEASURES

適當的措施

E&M SAFETY MANAGEMENT

- Prefabrication of E&M components to mitigate safety hazards at sites.
預製組件減低工地的意外風險。
- ICT and planning for safety are important to achieve E&M safety in the whole construction life cycle.
信息和通信技術能有效促進整個建築生命週期的機電安全。





E&M SAFETY MANAGEMENT

- Inspection at source to identify and rectify human mistake as soon as possible.
源頭檢測確保人為錯誤能及早被糾正。
- Partnering to improve communication and coordination of trades and crews so as to manage safety collaboratively and promote caring culture.
伙伴合作能加強溝通和協調，並有效地管理安全事務及推動關懷文化。





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CONTINUOUS EFFORT 不斷努力

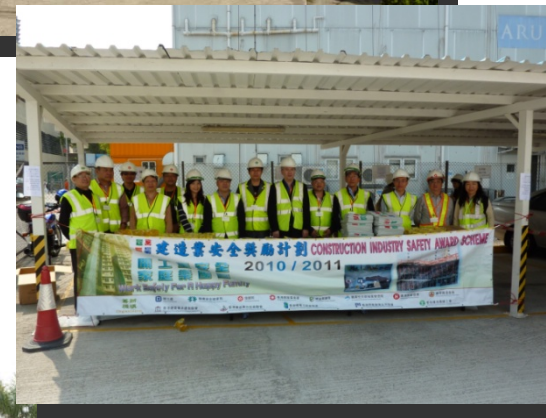
CULTIVATE E&M SAFETY

- Participate actively in working groups and public committees to develop guidelines, amend requirements and organize promotional events to uplift safety standard in the industry.

積極參與業界工作小組及委員會，制定指引、修訂規章及籌辦推廣活動去提升安全水平。

- Organize safety seminars, forums, workshops, visits and awards in collaboration with government bodies, labour unions and professional institutions.

與政府、工會和專業團體共同籌辦安全講座、論壇、工作坊、探訪及獎勵活動。





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CONTINUOUS EFFORT

不斷努力

CULTIVATE E&M SAFETY

- Organize annual “E&M Safety Walk” to assemble employers, employees and government bodies in the E&M sector to cultivate safety.

舉行每年一度的「機電安全健步嘉年華」以凝聚機電業各界，推動團結的安全文化。

- Deliver public speeches and papers for institutions, seminars and conferences to promote E&M safety.

就機電安全進行公開演講及發表研究論文報告。





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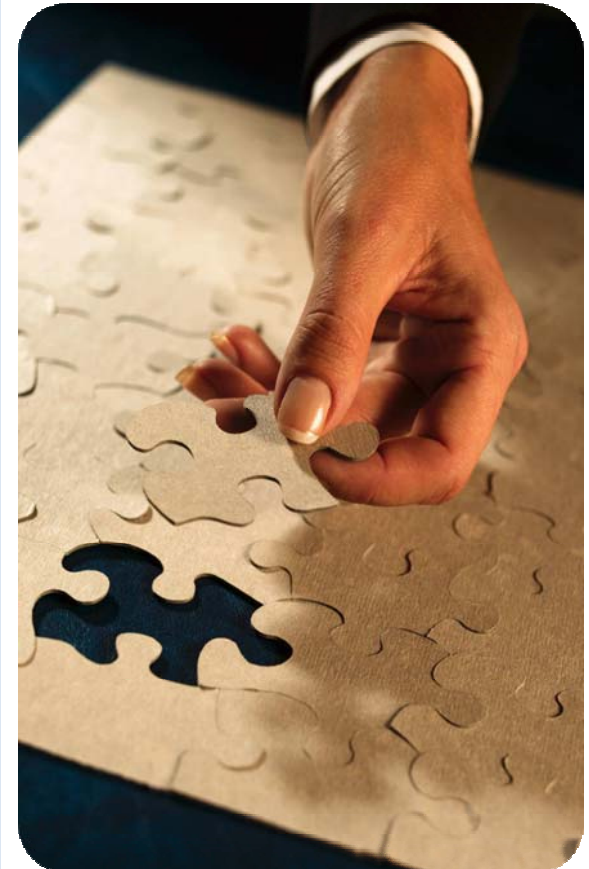
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INITIATIVES FORWARD

繼往開來

E&M SAFETY INITIATIVES

- Enhance the influence of HKFEMC as a focal point for health and safety in the E&M industry and nurture a safety conscious and multi-skilled workforce.
提升商會作為機電業界職安焦點的影響力，培育具強烈安全意識及多技能的工作團隊。
- Work with respective bodies to provide enhanced training for fresh blood and in-service personnel.
與相關團體合作為業界新入職及在職員工提供對應的安全資訊及培訓。
- Continue to liaise with various bodies to organize large scale promotion and publicity activities.
與不同界別團體繼續聯繫籌辦大規模推廣及宣傳活動。





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INITIATIVES FORWARD

繼往開來

E&M SAFETY INITIATIVES

- Promote design for safety and safety planning in E&M works.
推動機電工程的安全規劃及設計。
- Support relevant ICT initiatives such as BIM to facilitate safety planning via computer simulation.
支持利用信息和通信技術更好地以電腦模擬作有效的安全規劃。

