# **Enhancing MEWP Safety in HK Third Runway Division Sharing**



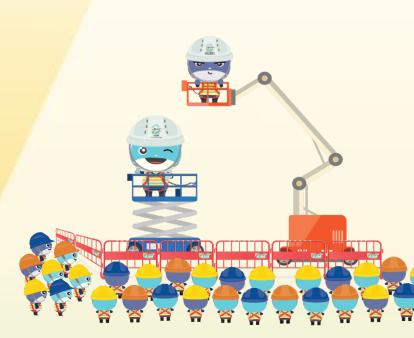


# **Journey of MEWP Safety Strategy**

三跑道項目處 流動式升降台安全策略旅程

#### **Timothy CHENG**

Manager, Safety Third Runway Division Airport Authority Hong Kong



#### 21 June 2023



# Today's Speakers 😽

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## **Today's Speakers**



# Enhancing MEWP Safety in HK Third Runway Division Sharing

提高香港流動式升降台安全 三跑道項目處的分享









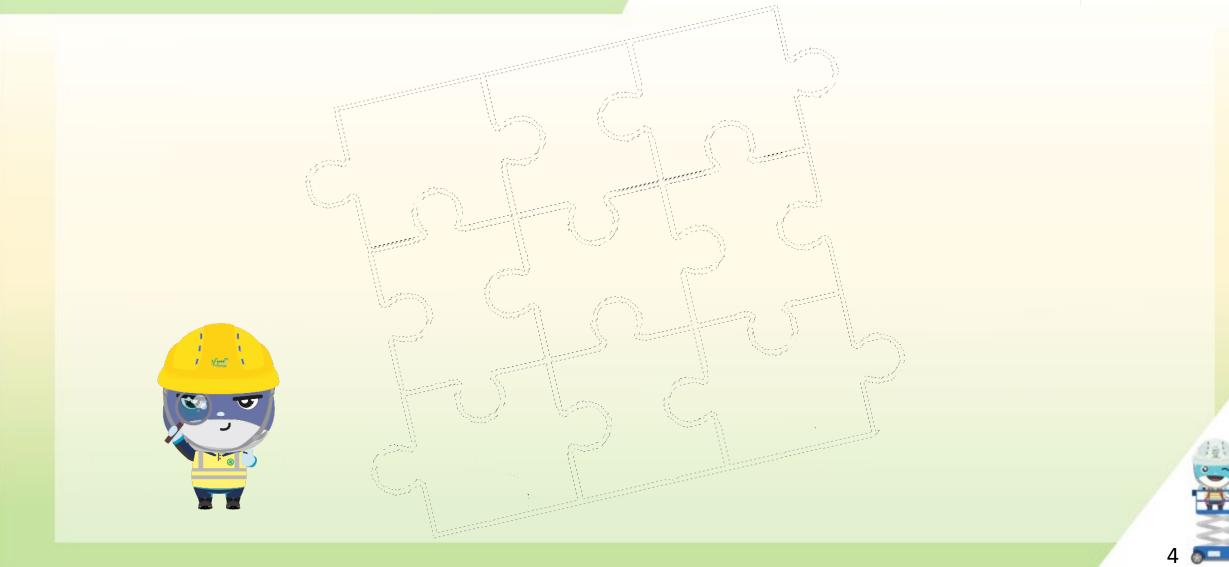




# What's Missing ?



-



# Why is MEWP needed for management ?



## Safety of MEWP managed ?

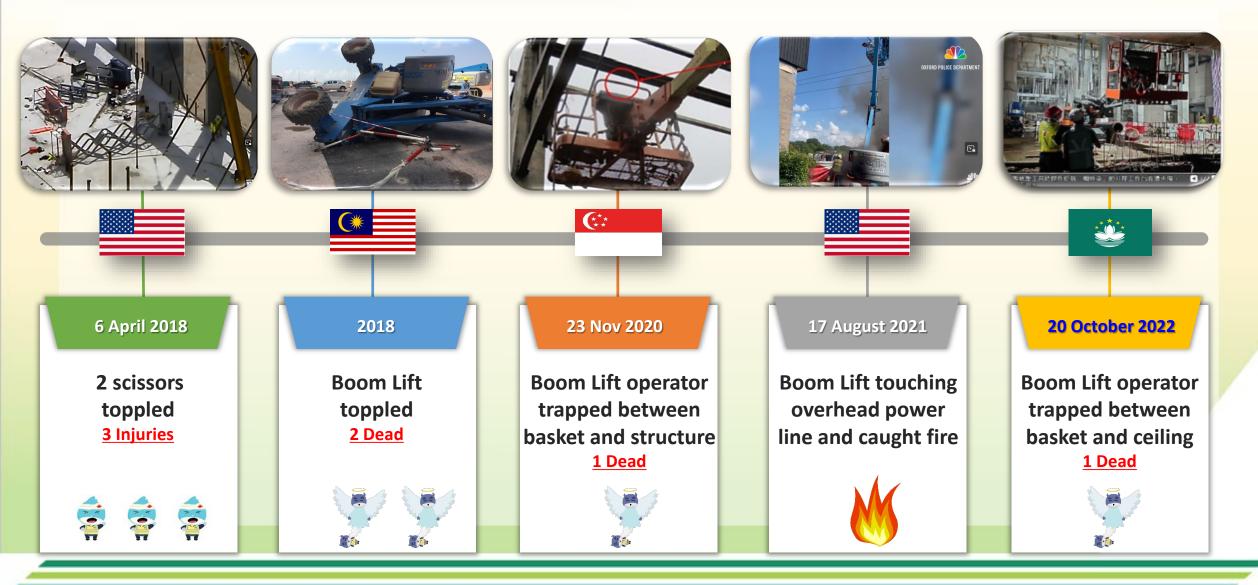




## **Global MEWP Accident**



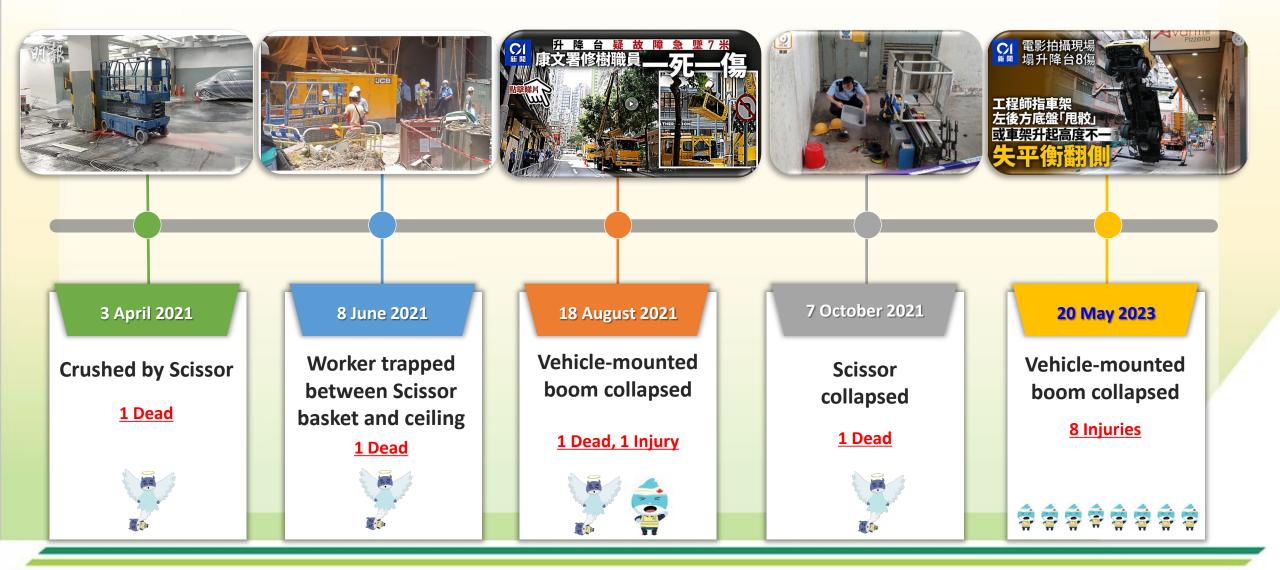




## **HK MEWP Accident**







## In 21 months time !







#### 18 August 2021, Vehicle 1 Dead & 1 Injury



20 May 2023 8 Injuries



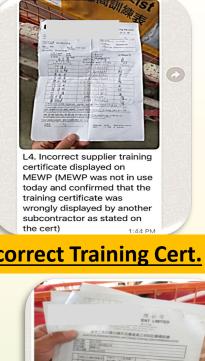
# Current HK Trade Practice in MEWP Management



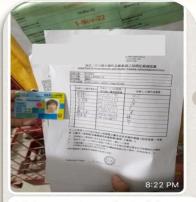
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## **Current HK Trade Practice in MEWP** Management









L7. Incorrect supplier training certificate displayed for MEWP.

8:2

#### **Operator NOT on List**



**Crowded Training** > 30 workers



**MEWP Training Conduct** at Workplace



L10. Supplier training list displayed not matching with MEWP model.





Lack of MEWP Management Training to **Managerial Staff** 



**No Practical Training nor Practical Testing** 



# HK Legal Regime for MEWP



# **HK Legal Regime for MEWP**

#### **Covered by:**

- Cap 59. F&IUO (Section 6A) General Duties of Proprietors
- ✓ Guidance Notes on Safe Use of Poweroperated Elevating Work Platforms

#### **Area of Concerns:**

- Competence of Operator
- Maintenance and Examination
  - Supervision



# International MEWP Code of Practice and Standard



## **International COP and Standard**







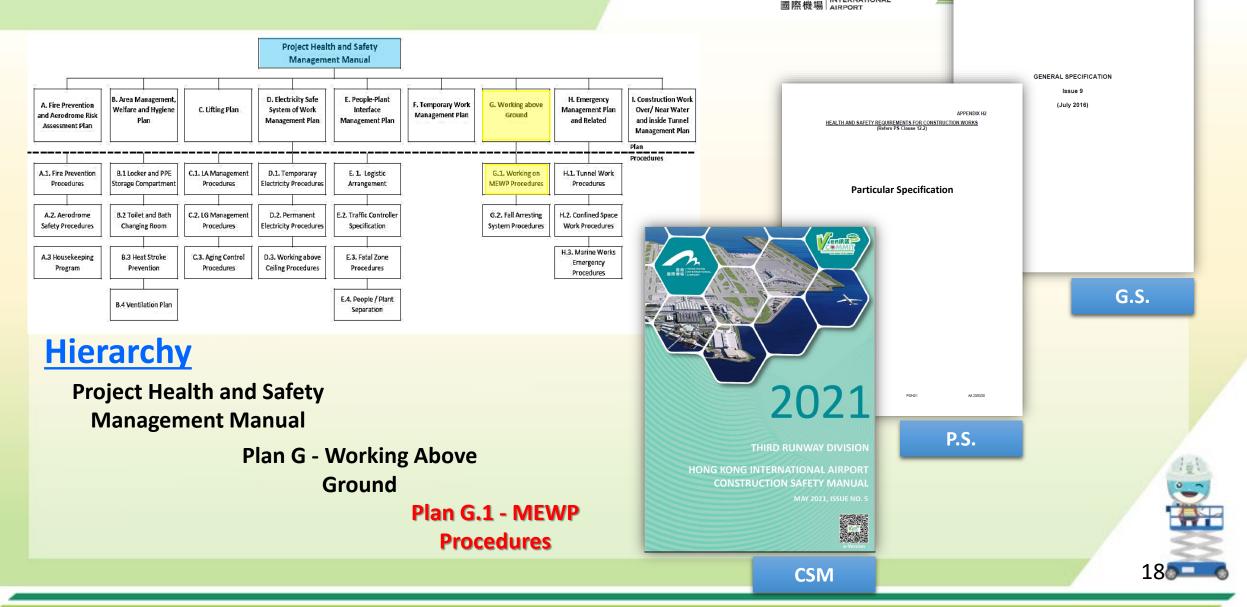
# TRD Safety Strategy in MEWP



# **TRD Safety Management Manual**

HONG KONG INTERNATIONAL

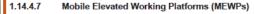
AIRPORT AUTHORITY HONG KONG



# Contract Requirement and Briefing Pack



#### P.S. Requirements – 1.14.4.7



1.14.4.7.1 The *Contractor* shall submit a "Working on MEWP Procedures" as part of the "Work above Ground Plan".

> The "Working on MEWP Procedures" shall address, but not be limited to :-

- Competence of "Operator's Trainer"
- Competence of MEWP Inspector
- Training Plan and Program for "Operator"
   Identification System for Operator
- Identification System for Operator being trained
   Training Cord issued to Operator and tracking
- Training Card issued to Operator and tracking system.
- Testing, Inspection Plan and Programme
- Record Management for Testing and Inspection
- 1.14.4.7.2 Flashing light and audible alarms shall be provided and function normally when the MEWPs are in operation and during travelling. *Flashing light and audible alarms*
- 1.14.4.7.3 MEWPs shall be used on ground within the angle *Working angle* stated in the manual and its tires shall be with correct pressure. (if applicable)
- 1.14.4.7.4 The maximum load capacities in both English and Maximum load Chinese shall be displayed on the machine. The capacities load capacities specified by the manufacturer shall not be exceeded.
- 1.14.4.7.5 The fatal zone (Works area and areas with Fatal Zone potential falling objects) shall be fenced off with red, continuous and connected barriers to prevent unauthorized entry.
- 1.14.4.7.6 The key shall not be left in an unattended MEWPs. Key
- 1.14.4.7.7 The working platform of MEWP should be lowered Travelling of down to the lowest level before travelling except MEWPs allowed by the Operational Manual
- 1.14.4.7.8 The Contractor shall provide short lanyard safety harness, i.e. length not more than 1m, to each worker working on MEWPs to prevent falling outside of the working platform.

- Competence of "Operator's Trainer"
- Competence of MEWP Inspector
- Training Plan and Program for "Operator"
- Identification System for Operator being Trained
- Training Card Issued to Operator and Tracking System
- Testing, Inspection Plan and Program
- Record Management for Testing and Inspection

## Contract Requirement and Briefing Pack







**Briefing Pack** to Contractor's Management , Supervisory and safety staff

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# How many MEWPs currently in HK?



# **MEWPs Quantity in Hong Kong**



Types of MEWP	Scissor	Boom	Spider	Total
No. of MEWP <u>in HK</u>	20,000	3,000	300	23,300
No. of MEWP <u>in Use</u>	15,000	2,000	100	17,100
$\sim$				
No. of Operators	22,500	3,000	150	25,650

\* Source from AWP Association

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# TRD's Challenge on MEWPs 😽



# Terminal 2 Expansion Project Terminal 2 Concourse Project







Contract No.: C3508 Terminal 2 Expansion Area on plan : 88,704 m<sup>2</sup> Total Floor Area : 552,000 m<sup>2</sup>

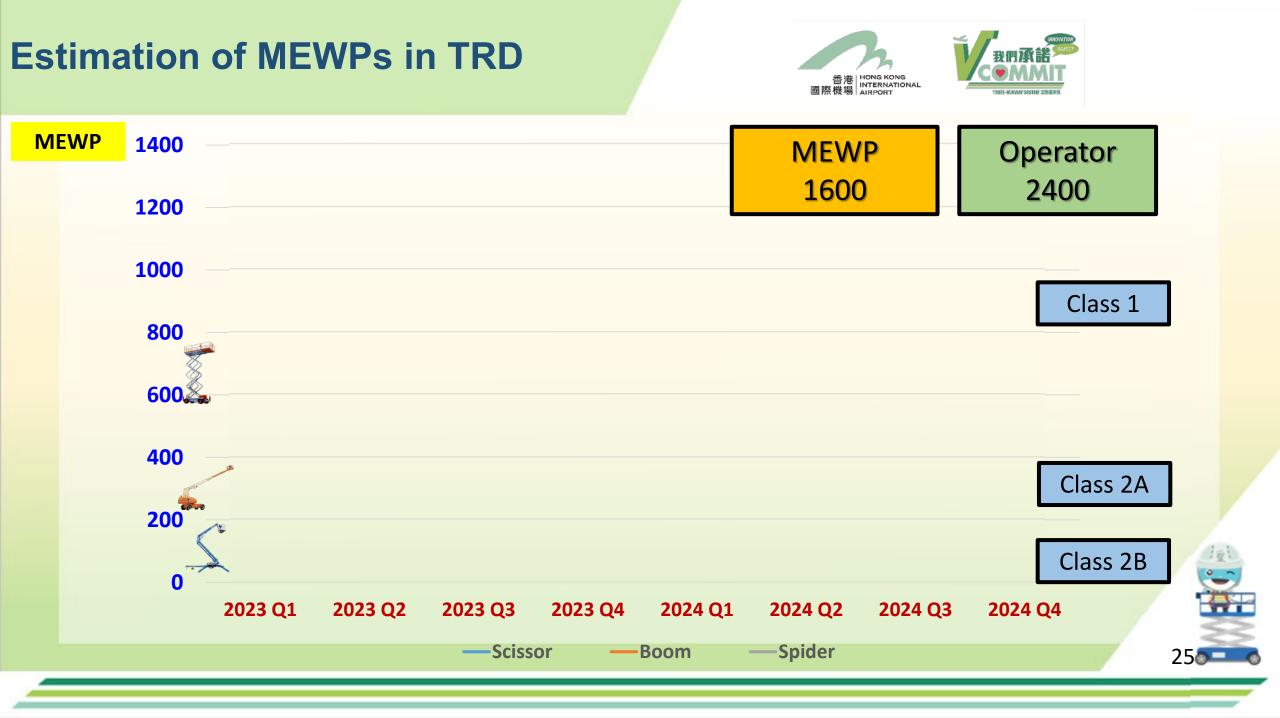


北京城建-其士建築聯營 BUCG-CCCL JV



### Contract No.: C3408 T2 Concourse Area on plan : 120,020 m<sup>2</sup> Total Floor Area : 519,368 m<sup>2</sup>

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# **TRD Management Safety Initiative**



#### 31 March 2023

Annual Safety Management Review Meeting chaired by Executive Director and General Managers, Third Runway Division (TRD) committed to initiate the MEWP Safety Program via VCommit Incentive Scheme.

#### MEWP Safety Program 2023

- **1. Training for Operator**
- 2. Training for Manager and Supervisor
- 3. Innovative and Best Safety Device
- 4. Supporting Safety Device for CITF Application
- 5. Incentive and Subsidizing Program





**Coming Up !** 

# Partnering for MEWP Safety in Hong Kong 攜手提升香港流動式升降台安全





