

# Enhancing MEWP Safety in HK Third Runway Division Sharing



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



### **Kelvin YUM**

Construction Safety Engineer  
Third Runway Division  
Airport Authority Hong Kong

### **Martin HO**

Chairman, MEWP Working Group  
Health and Safety Committee  
HK Construction Association

### **Glenn HO**

Chairman  
Hong Kong Mobile Aerial  
Work Platform Association

**21 June 2023**



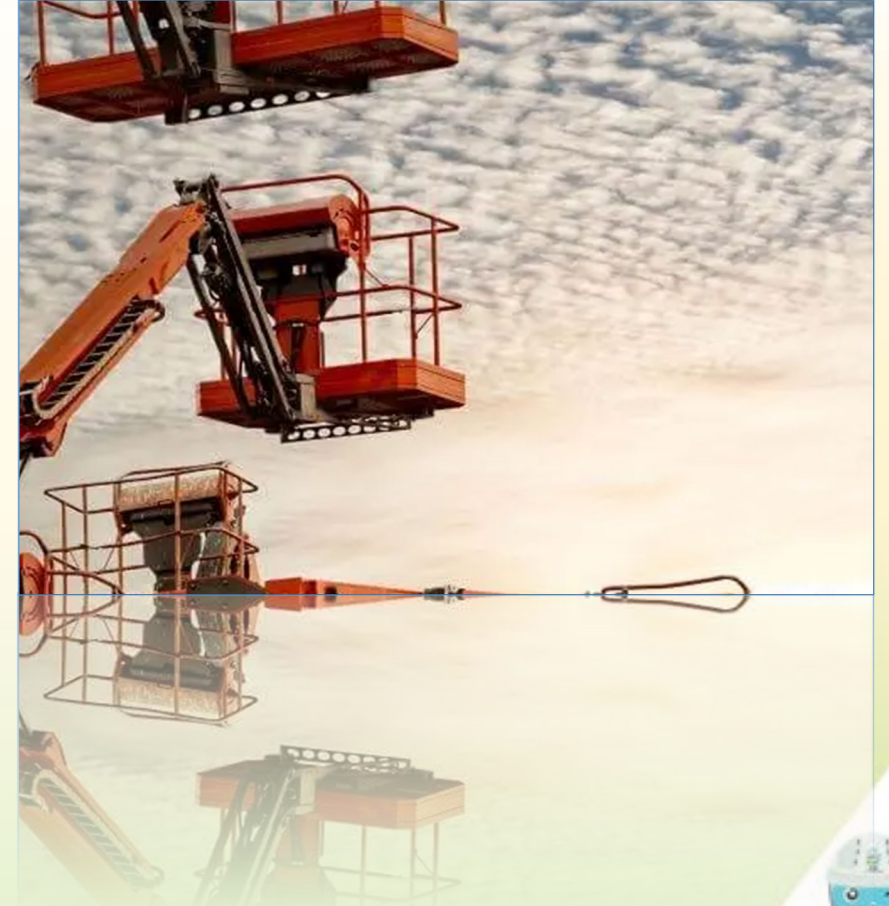
# Background



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HKCA

**Mobile Elevating Work Platform (MEWP)** have been widely used for working at heights in the construction industry, but

1. Contents and methodology of the training courses are not consistent
2. Qualifications of trainer are not assured
3. Student do not have valid certificates
4. No centralized database for trained MEWP operator
5. Many operators required repeating attend training whenever they change to another project or company
6. Training focusing on basic operations more than safety



# Background



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HKCA

- Hong Kong Construction Association (HKCA) Health and Safety Committee (HSC) as established a working group to review the training requirement of MEWP operators
- Concerned about the needs of the industry, the AWP which is composed of several MEWP suppliers, also joined the working group
- In 2019, the HKCA MEWP working group and AWP started to formulate a framework for standardizing MEWP operator training course



# Objective



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- ✓ Trainees can have standardized MEWP training
- ✓ Improve safety awareness when operating
- ✓ Establish a systematic student training database
- ✓ Students award certificates with qualification cards after passing the relevant skill test

**Validity : 5 years**

Revalidation : Extend another 5 years validity





# H.K Mobile Aerial Work Platform Association (AWP)



Since late  
2018



Represent more  
than 60% of  
units in Hong  
Kong and Macau,  
both brand and  
ownership



Members  
consist  
manufacturers,  
suppliers, and  
aerial work  
platform  
owners



Various  
discussions  
with customers  
and trade  
stakeholders



Aim to improve  
and promote  
the safety use  
of aerial  
platforms in  
Hong Kong



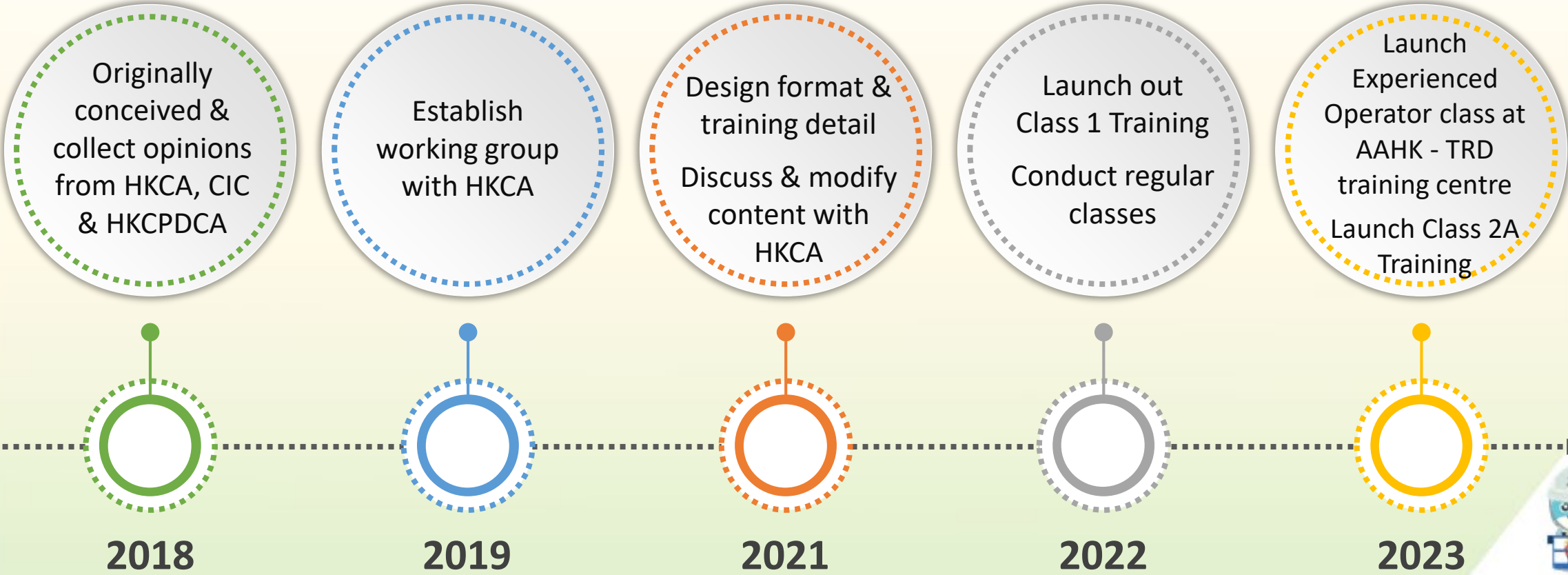
We aimed at  
not profit  
making

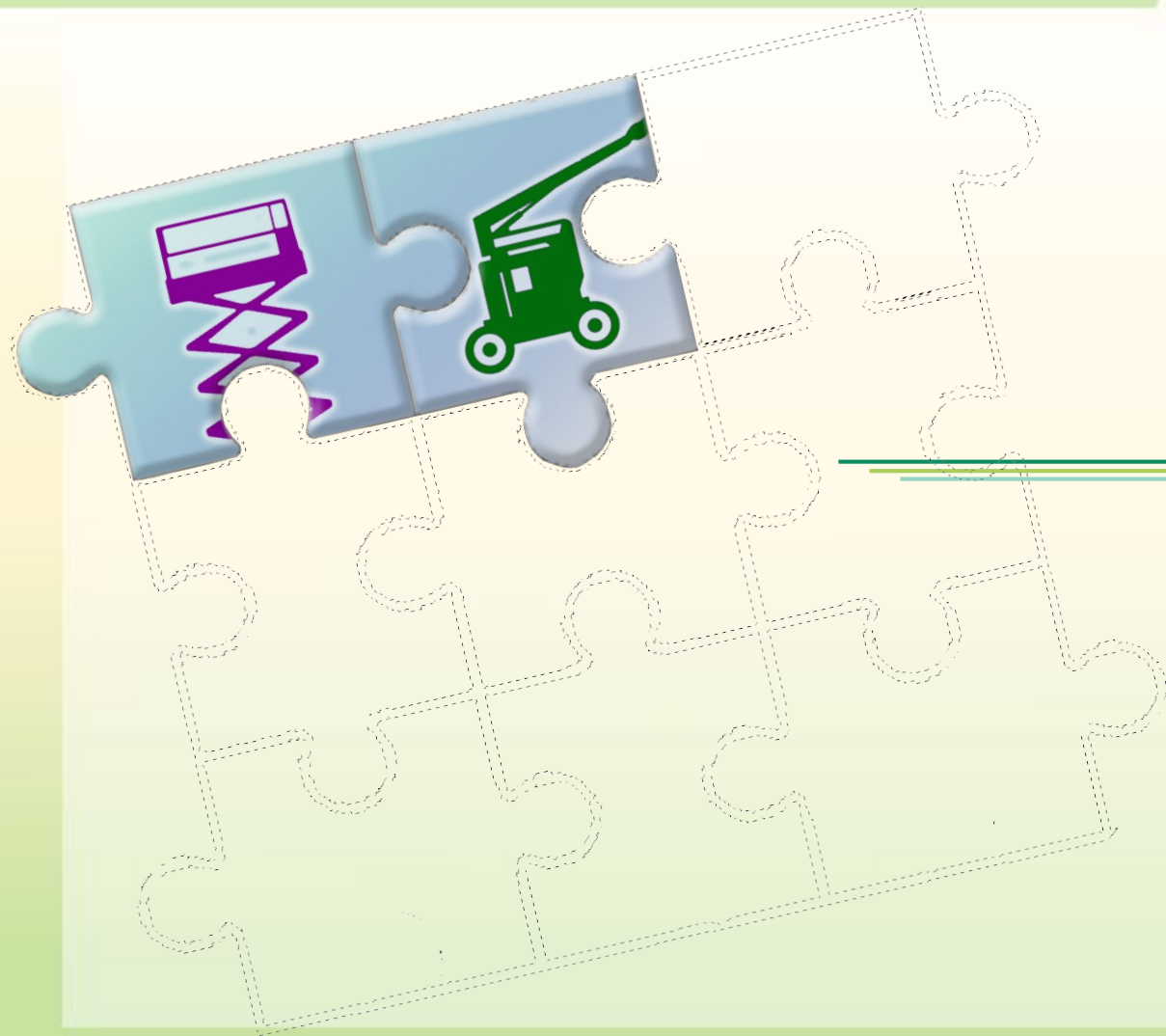


# Our Members



# Our Development





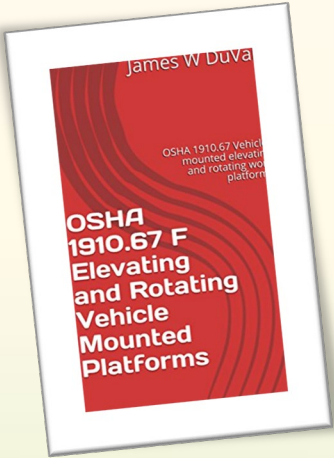
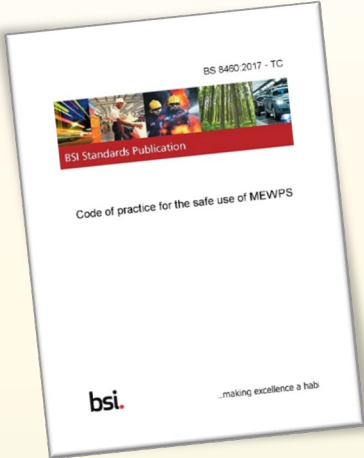
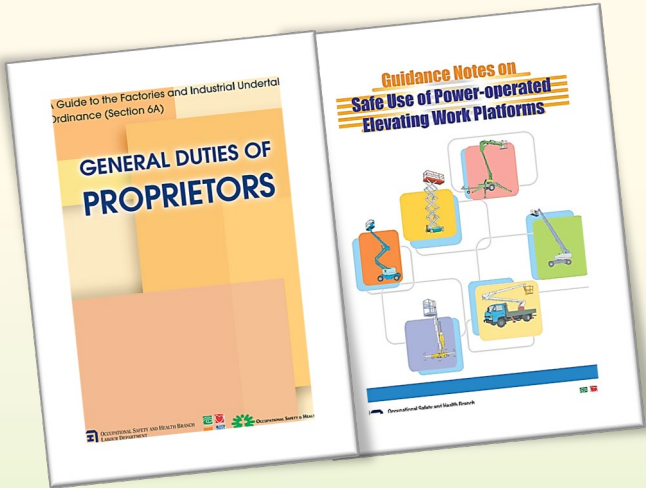
# Partnering for Safety

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# Legislation, COP and Standard



# Development Roadmap



## Health and Safety Committee MEWP Working Group

### Expansion of Training Scope

Explore Opportunity to accredit more Training Venue & Enterprise-based Class for Developer & Contractor

Provide Class 2A, Class 2B & English Course

**Working Group Establishment**  
Recruit HSC Members to Join Course Framework Design & Planning

2019

**Training Venue & Trainer Vetting**  
Standardized Training Venue & Trainer Criteria  
Venue Vetting  
Interview Trainer  
Confirm Examination Arrangement

2021  
1st half

2020

**Training Syllabus Preparation**  
Development of Training Contents  
Conduct Industry Consultation  
Revise & Materialize Course Details

2021  
2nd half

### Trial & Pilot

Invite Member to support & Collect Feedback

### Database Establishment

Establish a Centralized Online Database for Trained & Qualified Operators for Verification Purpose

2023

2022

### Promotion

Promote & Encourage Members to Participate  
Arrange HKCA Special Class





- Ensuring qualification and quality of trainers
- Promoting standardized courses to industry stakeholders
- Course arrangement including accreditation of venues and trainers
- Establishing a centralized database for trained operators

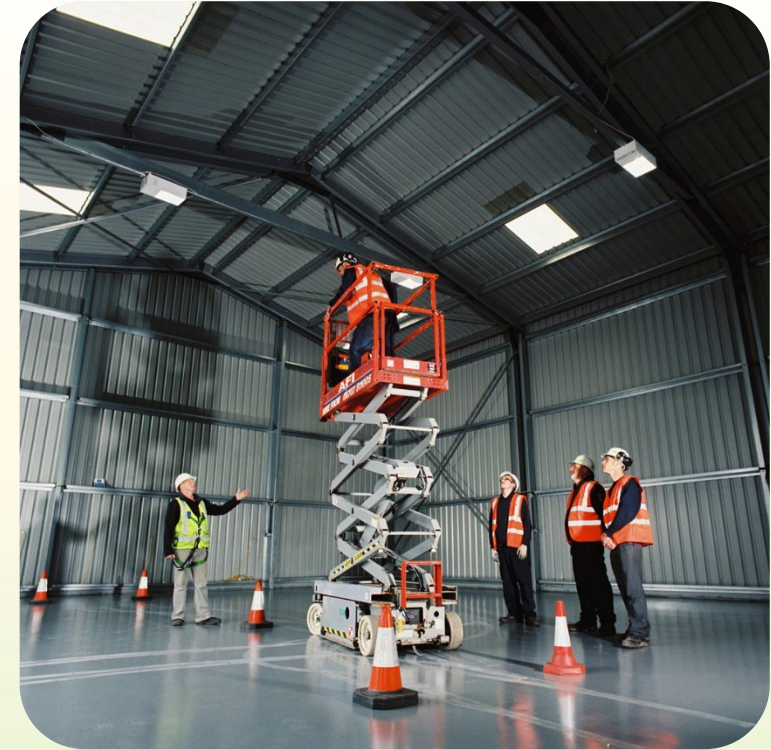


# Support From HKCA

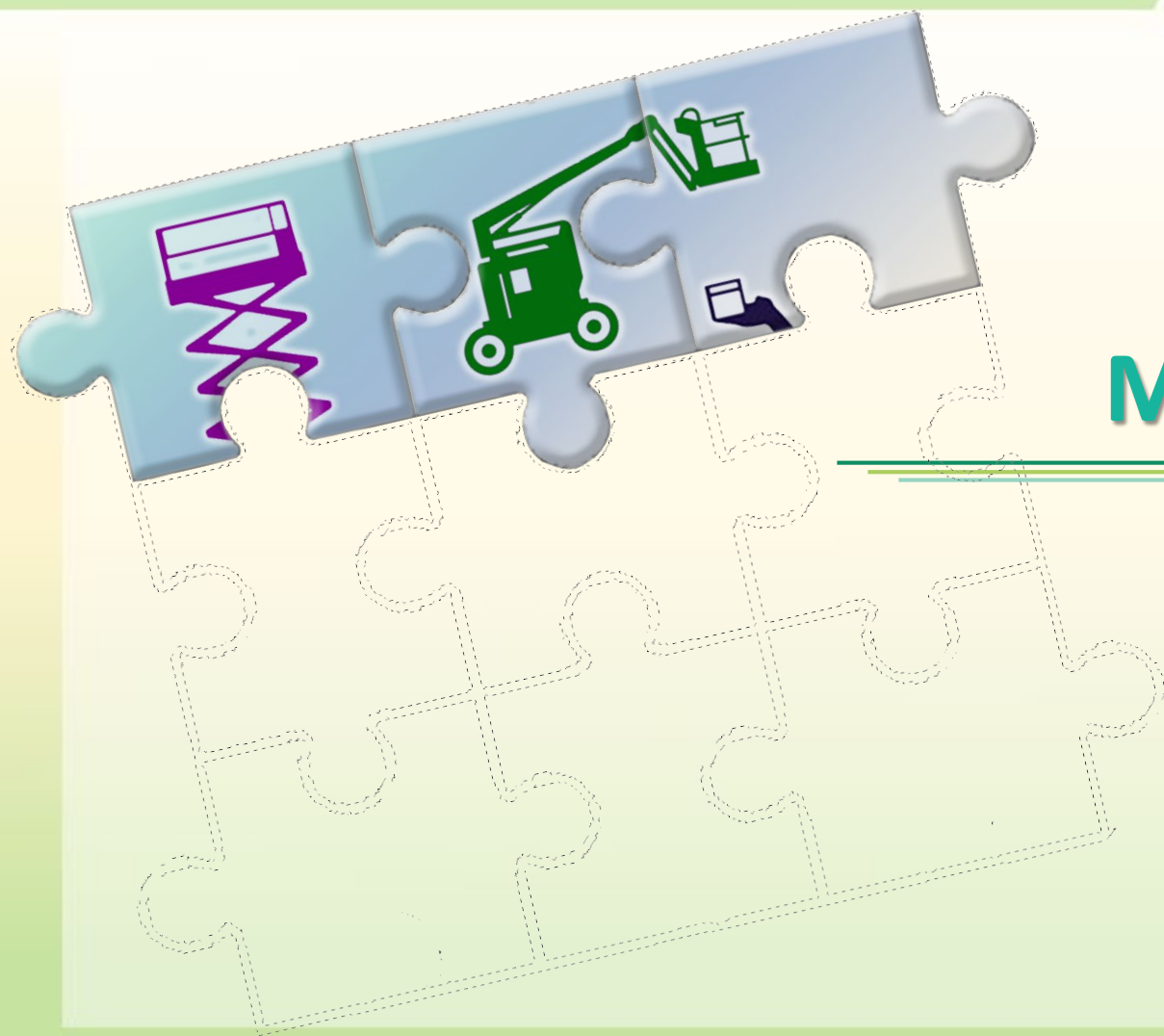


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- HKCA and AWP jointly developed the framework of a training program :
  1. Training material;
  2. Requirement of Trainer;
  3. Requirement of Training Venue;
  4. Details for delivering the Training Course
- Establish MEWP Working Group to review :
  1. Trainer Qualification;
  2. Training Venue;
  3. Arrangement of Training Course Delivery.





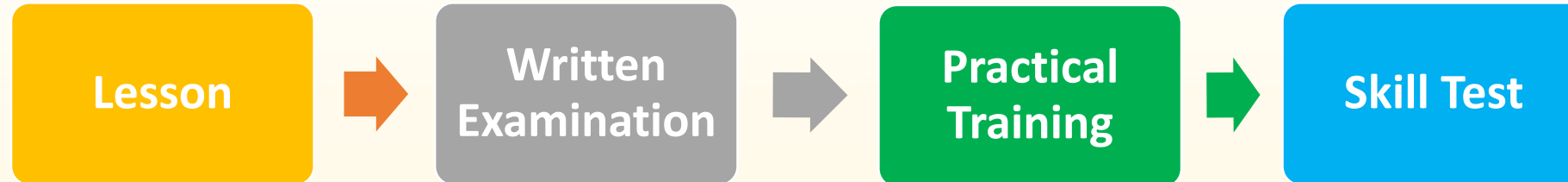


# MEWP Operator Training ✈





## Standardized Mobile Elevated Working Platform Training Course



1. Usage in Hong Kong
2. Classification
3. Standard and Regulation
4. Structure and Application
5. Safety Assessment
6. Safety Highlight
7. Safety Operation
8. Checking before Operation and Routine Maintenance

1. Risk Assessment and Control
2. Common risk and risk management
3. Safety Device and Equipment
4. Checking before operation
5. Safe Operation
6. Inspection and Maintenance



# Classroom Training Written Examination



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# Practical Training and Practical Examination



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# 1 Day Training Programme Non Experienced Operator



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## 1 Day Training Programme(新手班)

- *Background of MEWP Safety Training*
- *Categorization of MEWP*
- *Legislations, Standard, COP*
- *Introduction of Class 1 MEWP*
- *Characteristic of Class 1 MEWP*
- *Safety Equipment*
- *Risk Assessment and Mitigation*
- *Pre-Operation Inspection*
- *Regular Maintenance*
- *Safety Feature*
- *Practical Training*
- *Written and Practical Examination*



# 1/2 Day Training Programme Experienced Operator



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## 1/2 Day Training Programme (老手班)

- *Categorization of MEWP*
- *Legislations, Standard, COP*
- *Structures and Application*
- *Safety Features*
- *Risk Assessment and Mitigation*
- *Pre-Operation Inspection*
- *Regular Maintenance*
- *Written and Practical Test*



# MEWP Classification

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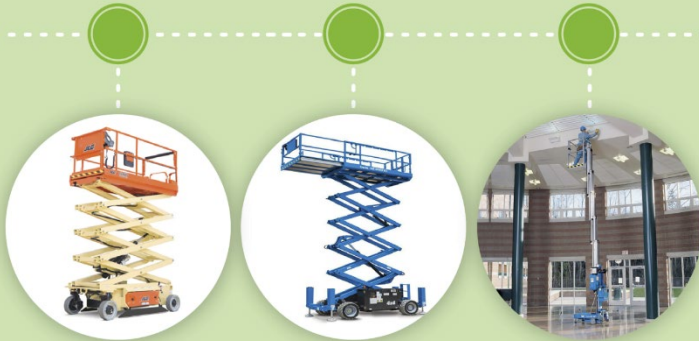




# MEWP Classification

## Class 1

Scissor, Single Mast, Non-self-propelled



## Class 2A

Articulated Booms,  
Telescopic Booms



**Class 2B**  
Spider Lifts





# Record Management

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# Record Management

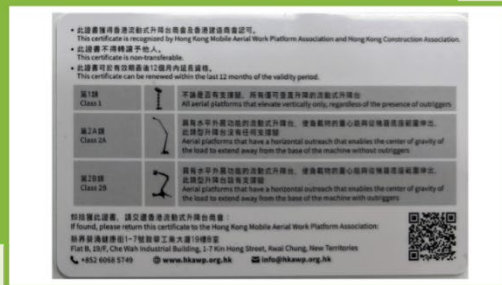


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## Online Information Enquiry System

- QR Code on Card's Back or Website
- Enter information
- Data showed



Certificate  
流動式升降台  
安全操作證書

Surname 姓氏  
Given Names 名字  
ID Card No. 身份證號碼  
Registration No. 登記號碼  
Mobile No. 手提電話號碼

Verify Code 驗證碼  
Please input the characters shown in image:  
請輸入下列的字符  
5568

\* 搜索資料上傳需時3個工作天(由完成課程起計)

Mobile Aerial Work Platforms  
Safety Operation Training  
Certificate  
流動式升降台  
安全操作證書

Registration No. 登記號碼 Holder's Name 姓名  
HU-2022-0127

Class Type 證書類別  
Class 1  
Expiry Date (DD-MM-YYYY) 到期日 (日-月-年)  
21-06-2027

Class Type 證書類別  
Class 2A  
Result  
Not Qualified 未有相關資格

Class Type 證書類別  
Class 2B  
Result  
Not Qualified 未有相關資格



# MEWP Training Centre



**@ AWP Member Depot**





# Six AWP since 2022 Accredited MEWP Training Centres



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HKMA	HKMA
<p>1. 此項培訓課程的開辦地點為：</p> <p>1.1 室內地點</p> <p>1.2 室外地點</p> <p>1.3 混合地點</p> <p>1.4 其他地點</p>	<p>1. 此項培訓課程的開辦地點為：</p> <p>1.1 室內地點</p> <p>1.2 室外地點</p> <p>1.3 混合地點</p> <p>1.4 其他地點</p>
<p>2. 此項培訓課程的開辦地點為：</p> <p>2.1 室內地點</p> <p>2.2 室外地點</p> <p>2.3 混合地點</p> <p>2.4 其他地點</p>	<p>2. 此項培訓課程的開辦地點為：</p> <p>2.1 室內地點</p> <p>2.2 室外地點</p> <p>2.3 混合地點</p> <p>2.4 其他地點</p>



Class 1	Class 2A	Class 2B
<p>此類平台為全直落式，其高度可伸縮，且其伸縮範圍不受限制。</p> <p>此類平台為全直落式，其高度可伸縮，且其伸縮範圍不受限制。</p>	<p>此類平台為全直落式，其高度可伸縮，且其伸縮範圍不受限制。</p> <p>此類平台為全直落式，其高度可伸縮，且其伸縮範圍不受限制。</p>	<p>此類平台為全直落式，其高度可伸縮，且其伸縮範圍不受限制。</p> <p>此類平台為全直落式，其高度可伸縮，且其伸縮範圍不受限制。</p>



# MEWP Training Centre



**@ Non-AWP Member Depot**





# AAHK TRD VCommit Safety Training Centre



VCommit MEWP Safety Incentive Scheme 2023/2024

三跑道項目處  
Third Runway Division  
流動升降台訓練場  
MEWP Training Venue

流動升降台  
操作員訓練  
MEWP  
Operator  
Training

**VSTC Centre**  
Classroom and  
Practical Venue

**Launched on  
28 April 2023**

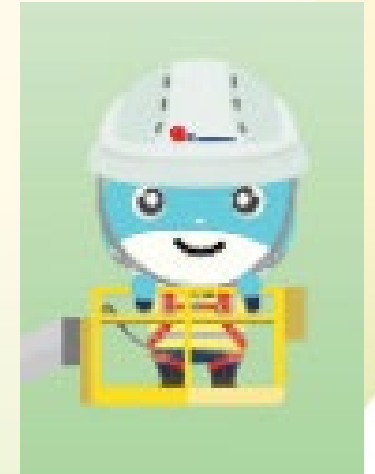




# Gammon MEWP Training Centre TRD 3508 T2 Expansion Project



Pending  
HKCA and AWP Accreditation  
Target : Late June 2023



**Coming Soon** 

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# Coming Soon



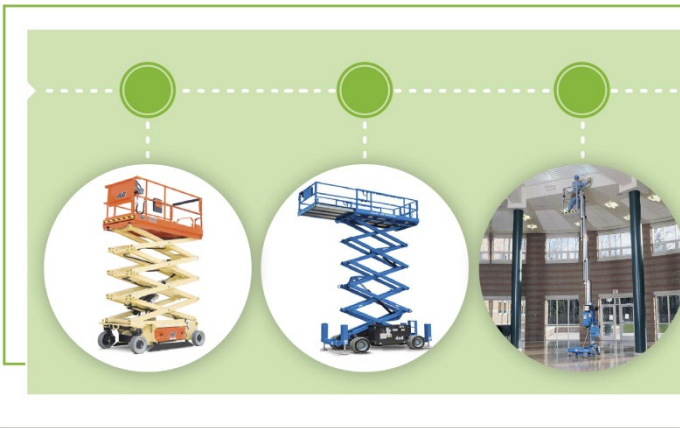
香港建造商會  
HKCA



- Class 1 has been launched since 2022
- Class 2A is launched in June 2023
- Class 2B is targeted to launch in early 2024
- Start conducting class in Putonghua (Imported Labour)

## Class 1

Scissor, Single Mast, Non-self-propelled



## Class 2A

Articulated Booms,  
Telescopic Booms



## Class 2B Spider Lifts



# AAHK-TRD Support

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# MEWP Safety Incentive Program



## TRD VCommit Funding Subsidize Contractors

- MEWP Operator Training
- IPAF - MEWPS For Managers Training Course
- MEWPs Safety Device



### MEWP Operator's Training

Organizer: AWP HONG KONG MOBILE AWP ASSOCIATION

**Type of Training:**

- Course A: Full Day – For New Operator**
- Course B: Half Day – For Skilled Operator**

**TRD Subsidization:**

- 50% Training Fee
- \$500 Cash coupon per trainee after passing the training
- Phase 1 : Subside 1,500 operators

**Phase 1 Target:**

- First course start in May 2023
- To complete 1,500 trainings before May 2024

Supporting Organizer: AAHK - TRD

Promoting the safe and effective use of powered access worldwide

### MEWPS FOR MANAGERS TRAINING COURSE

www.ipaf.org

Operate legally and safely  
MEWPs for Managers is aimed at those who plan, supervise or manage work at height with Mobile Elevating Work Platforms (MEWPs).  
Can be completed via eLearning or at an IPAF-approved training centre (one day course).

Can be taken online as eLearning using your own device

### 操作訓練更熟手 Advanced Training 升降安全免撞頭 Avoid Trapping

Subsidize Scheme for MEWP Training & Safety Devices

- ✓ 流動升降台訓練及設備資助計劃
- ✓ 網上流動升降台課程 (經理及管理人員)
- ✓ 流動升降台安全設備展覽

流動升降台操作員訓練 MEWP Operator Training

VCommit WhatsApp: 6377 6310  
VCommit Email: TRD.VCommit@hkiaport.com

家庭安全三鐵：我們承諾，我們愛  
VCommit • Happy Family • Happy Safety



# VCommit MEWP Operator Safety Training Incentive Scheme



## Subsidizing TRD Contractor / Service Provider

- 50% Training Fee
- \$500 Cash Coupon per Trainee after passing the training
- Phase 1 : 1500 Operators



## MEWP Operator Training



### Type of Training:

**Course A: Full Day – For New Operator**

**Course B: Half Day – For Skilled Operator**

### TRD Subsidization:

- 50% Training Fee
- \$500 Cash coupon per trainee after passing the training
- Phase 1 : Subside 1,500 operators

### Phase 1 Target:

- First course start in May 2023
- To complete 1,500 trainings before May 2024



Supporting Organizer:  
AAHK - TRD



# Trainee Feedback

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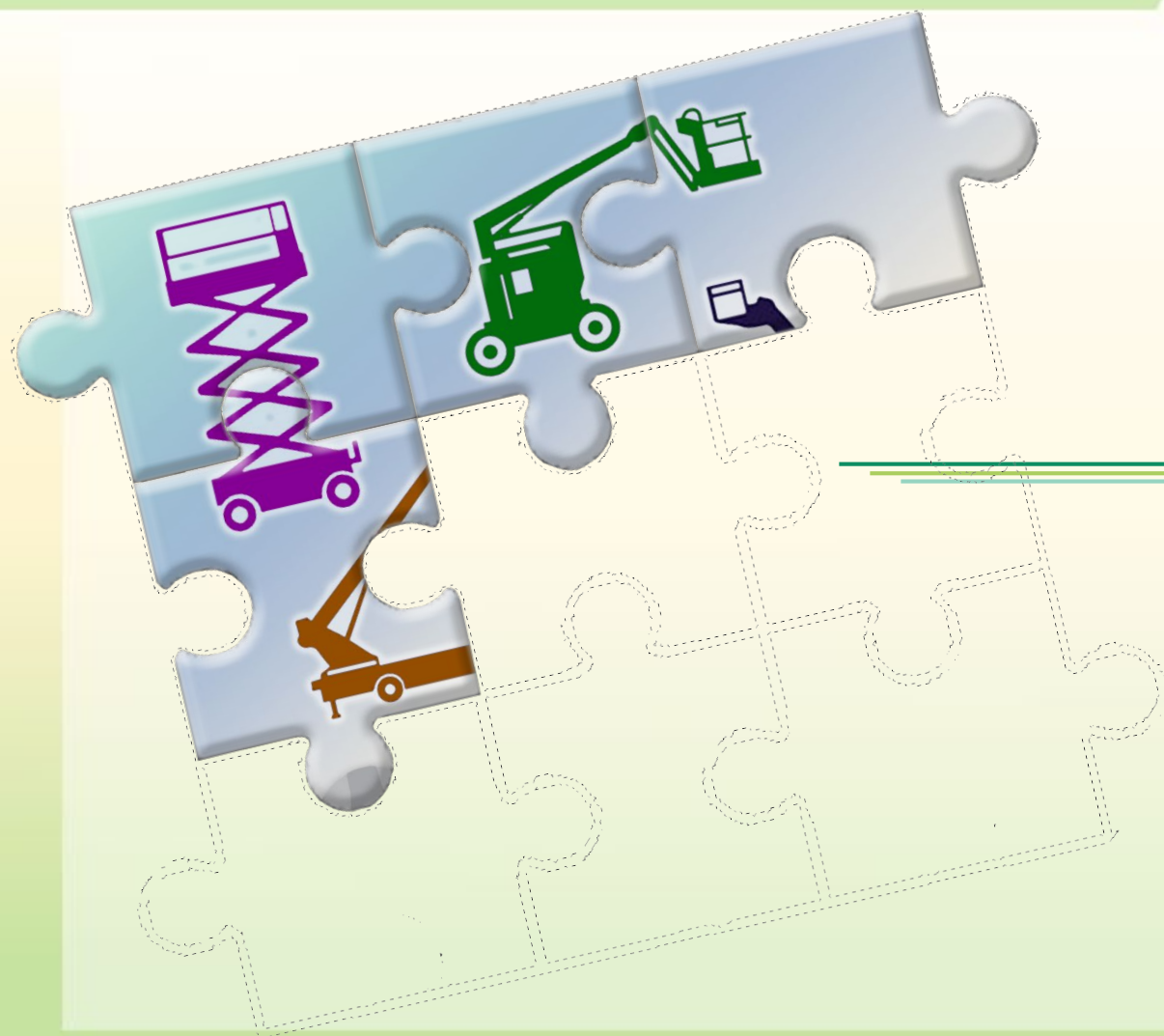




# VSTC Trainee Feedback







# Manager & Supervisor Training

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# MEWP Training for Manager and Supervisor



## IPAF Background

- Formed in 1983, HQ in UK, SE Asia Office in Singapore
- Not-For-Profit Organization
- In June 2023,
  - 1,600+ members in 76 countries and regions
  - 750+ IPAF Approved training centres
  - 800,000+ valid certificate in circulation

## The Course MEWPS For Managers Training Course:

- E-Learning Course launched in 2019.
- According to Safe Use of MEWP Standards of the UK - BS8460:2017, USA - ANSI92.22-2022 and Singapore - ACOP SS616/2016, Personnel who supervise or manage the use of MEWPs, shall be trained and competent.
- Stakeholders in Singapore, Malaysia, Hong Kong and Thailand had received IPAF MEWP for Managers Course.

## TRD VCommit Incentive Scheme subsidize Contractors

- 80% of the Training Fee

**IPAF**.org Promoting the safe and effective use of powered access worldwide

**MEWPS FOR MANAGERS TRAINING COURSE**

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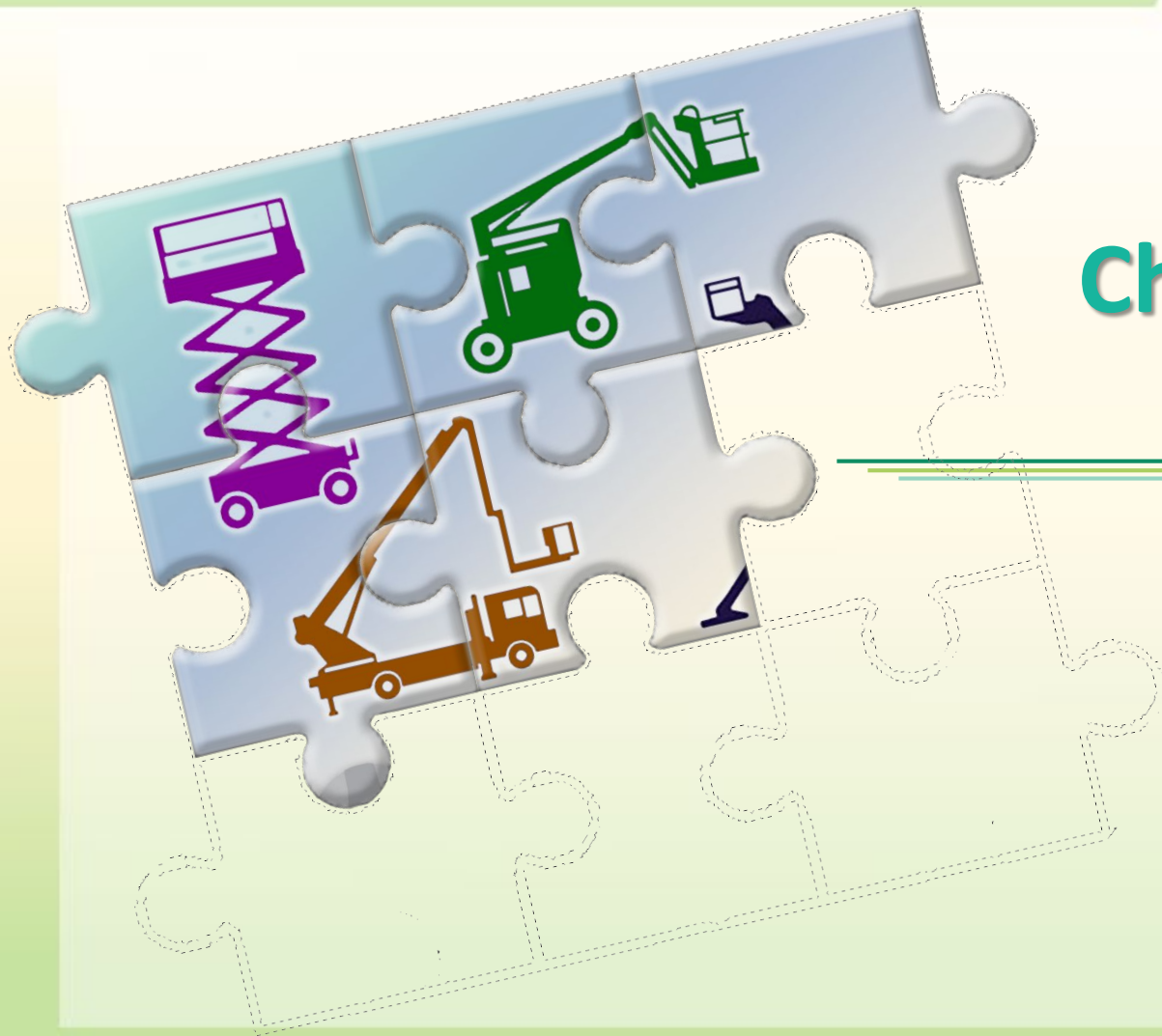
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# Way Forward

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# Checking, Inspection, and Examination ✈️







Coming Up ! 



# Retrofit Safety Accessories on MEWP

流動式升降台後置輔助安全設備



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