

Participate in the quiz
to learn **1** CPD hour



The First VM Learning Station Workshop



- Demonstration of Electric Motorcycles Equipped with Replaceable Batteries (2)
- Upcoming Technical Seminar on Vehicle Maintenance (14)
- Latest Developments of the Registration Schemes



For enquiries

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機電工程署
EMSD



Demonstration of Innovative Online Platforms

Driving Digital Transformation of the Vehicle Maintenance Industry

The Vehicle Maintenance Registration Unit (VMRU) of the Electrical and Mechanical Services Department (EMSD) held the first VM Learning Station workshop on the evening of 7 May 2025 at the Digital Training Centre on the third floor of the EMSD Headquarters Building, with a total of 20 vehicle mechanics participated. Co-organised by the EMSD and the Hong Kong Vehicle Repair Merchants Association (HKVRMA), the workshop adopted small class teaching and highlighted online registration platforms for vehicle mechanics, including "iAM Smart+", "E&M Trade" and the VM Learning Station.

During the workshop, the VMRU staff provided detailed explanation on how to submit applications via "iAM Smart+" for registration, renewal of registration and changes to registered service scope or class, helping the industry to master new digital tools to boost the efficiency of the registration process. The VMRU staff also demonstrated how to use each online platform, and responded to questions from the mechanics promptly. The mechanics used computers at the Digital Training Centre and their personal smart phones to experience the functions of each system at the venue. Moreover, they earned continuing professional development (CPD) hours with the VM Learning Station by completing continuing learning tasks. Participating mechanics generally relayed that the workshop deepened their understanding of the functions and use of the systems, while resolving their queries on practical application. The event concluded successfully with unanimous praise.

This workshop not only provided the sector with a valuable opportunity for learning and networking, but also tangibly drove digital transformation of the vehicle maintenance industry, laying a solid foundation for promoting online registration services and continuously enhancing the professional standards of the trade in the future.



The VMRU staff actively responded to questions from the mechanics.



Mr CHAN Kwan-yiu, Senior Engineer/Vehicle Maintenance Registration 1 (left), and Mr LAU Chun-wai, Chairman of the HKVRMA (right), delivered speeches at the workshop.

The VMRU has created VM Learning Station accounts for registered mechanics, enabling them to pursue continuing learning and manage their CPD hours. Below is the demonstration of the first-time login to the VM Learning Station using a desktop browser:

1

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VM Learning Station 機電工程署 EMSD

Home Beginner's Guide Voluntary Registration Schemes New and Renew

New and Renewal Application for Registered Vehicle Mechanic

E&M Trade App

Registered Vehicle Mechanics can sign up a mobile app account and store the information of their certificate of registration so as to enroll for relevant courses directly on the app, record training hours, show their "Digital E&M Licences" to the public and receive push notification reminders on registration expiry.

2

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VM Learning Station 機電工程署 EMSD

Home Beginner's Guide Voluntary Registration Schemes New and Renew

Login

Enter the 7-digit registration number of registered vehicle mechanic

The default password is "the alphabetic prefix and first 4 digits of the Hong Kong Identity Card number"+"#Rvm"+" the 7-digit registration number of registered vehicle mechanic", e.g. A1234#Rvm1234567 or XY1234#Rvm1234567.

Register Forgot Password

3

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VM Learning Station 機電工程署 EMSD

Home News Courses Upload CPD Records My CPD Records My Profile Links

Change Password Please change the password after the first login

Enter the default password, which is "the alphabetic prefix and first 4 digits of the Hong Kong Identity Card number"+"#Rvm"+" the 7-digit registration number of registered vehicle mechanic", e.g. A1234#Rvm1234567 or XY1234#Rvm1234567

Current Password

New Password Use 8 or more characters with a mix of letters, numbers & symbols.

Confirm New Password Use 8 or more characters with a mix of letters, numbers & symbols.

Confirm

The password must have 8 characters or more, containing at least one uppercase letter (A to Z) and one lowercase letter (a to z), as well as numbers (0 to 9) and symbols (e.g. ! and #).

Following the previous issue of RVM Newsletter, this article explores the distinctive advantages of electric motorcycles (EMCs) equipped with replaceable batteries compared to the traditional charging models. A representative from a local catering group was invited to share the practical experience in using EMCs. Five key features of EMCs equipped with replaceable batteries are as follows:

- 1 High time efficiency: Battery replacement takes only three to five minutes, which is comparable to refuelling a fuel-engined vehicle and significantly less time-consuming than quick charging that takes over 30 minutes.
- 2 Optimised battery health management: The specialised charging system enables centralised repair and maintenance and echelon use of multiple batteries, effectively extending battery lifespan.
- 3 Lower vehicle purchase cost: The “vehicle-battery separation” approach allows the cost of EMC purchase and subsequent battery replacement be calculated separately, thereby reducing the initial cost of vehicle purchase.
- 4 Extensive battery replacement network coverage: The strategically planned distribution of battery replacement stations enables effective coverage of the EMC service area.
- 5 Standardised battery specifications: Uniform standards for battery size, interface and communication protocol ensure system compatibility.



The bottom design of an EMC battery.



The battery installation method, placement of the positive and negative terminals and part numbers of compatible batteries are specified on the battery compartment.



The EMCs are equipped with a sensor-activated unlocking function.



The battery level is clearly displayed on the dashboard of EMCs, which is simple and easy to understand.

During a discussion with the Vehicle Maintenance Registration Unit, Mr Li, Senior Business Manager of the group, shared the operational experience in using EMCs equipped with replaceable batteries.

"We choose this EMC model mainly because its operation mode of battery replacement provides a comprehensive solution covering EMCs, batteries and battery replacement systems. This solution not only complies with current technical standards, but also provides better user experience for our takeaway delivery team, meeting our company's business needs on takeaway delivery. Furthermore, our company is committed to promoting green initiatives, actively putting the environmental, social and governance (ESG) concepts into practice and contributing to sustainable development. As takeaway delivery is our core business, we believe that electrification of our fleet will bring significant environmental benefits in the long term. Currently, our fleet consists of approximately 500 vehicles, including EMCs and petrol-powered motorcycles. During the transition, we are adopting a hybrid operation mode, with the ultimate goal of full electrification. Compared to traditional fleets, digital management can be achieved for electric fleets, which is conducive to enhancing fleet management efficiency. It is particularly noteworthy that the waterproof design of battery replacement stations enables stable operation even under adverse weather conditions.

Looking ahead, we firmly believe that EMCs will become mainstream in the market within five to ten years, given their advantages of better cleanliness and cost-effectiveness. The design that enables battery replacement is a more convenient option for commercial and individual users. While running this business comes with many challenges, particularly in the capital investment in and lifecycle management of batteries, we are willing to overcome them to make contribution for the planet and future generations. As an important solution for refuelling electric vehicles, battery replacement technology holds unique market value and development potential. The successful promotion of such technology not only requires continuous technological advancement, but also a robust complementary ecosystem and innovative business models. With increasing standardisation and better economies of scale, the battery replacement mode is expected to develop a unique competitive edge in specific markets, providing a diversified solution for the wide adoption of new energy vehicles."



Mr CHAN Kwan-yiu, Senior Engineer/Vehicle Maintenance Registration 1 (second left), Mr SIT, the group representative (third left), a rider (first left), Mr WONG Lik-kuen, Member of the Vehicle Maintenance Technical Advisory Committee (third right), and the VMRU took a group photo.

The Vehicle Maintenance Registration Unit (VMRU) will hold the fourteenth technical seminar on vehicle maintenance, themed “Diagnosis Tools, Advanced Driver Assistance System and Smart Vehicle Control System”, on the evening of 11 October 2025 (Saturday). Each participant is eligible to earn three CPD hours. For details and the registration, please refer to the information below.

Organised by

機電工程署
EMSD



Co-organised by



職業訓練局

QR code for enrolment



Technical Webinar on Vehicle Maintenance Technical Webinar (14)

Topic: Diagnosis Tools, Advanced Driver Assistance System and Smart Vehicle Control System

Features of Technical Webinar Series:

General knowledge about the automotive industry, including legislation on vehicle maintenance workshops, occupational safety and health requirements for maintenance work, vehicle maintenance technology and latest developments, as well as technologies of electric vehicles and new energy vehicles.



Target participants:

Vehicle mechanics and persons-in-charge of vehicle maintenance workshops.

Date & Time: 11-10-2025 (Saturday) / 18:30 - 21:30

Mode of Delivery: Microsoft Teams (online platform)

Fee: Free of charge

Language: Cantonese

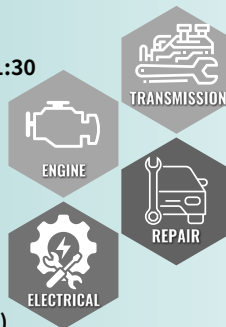
Application Method: Filling in the enrolment form below

Quota: 1 000 persons

(allocated on a first-come-first-served basis)

If you have not become a registered vehicle mechanic (RVM), please download the “E&M Trade App” now. Users can sign up for a mobile app account and store the information of their certificates of registration to enrol for relevant courses directly through the app and record training hours.

Please refer to the EMSD website for details.



A three-hour CPD e-certificate of attendance will be issued to participants

Enrolment form

Please send the completed enrolment form to the JCEC by fax or email, or scan the QR code on the top-right corner for enrolment.

Name: (Chinese) _____ Name: (English) _____

Mobile Phone No. (Available for receiving SMS messages): _____

RVM No. (if any): _____

Email Address: _____

I do not agree that the EMSD and the JCEC may retain the personal data I provide, including my mobile phone number and email address, for providing information on any courses or activities in the future.

Enquiries or submission of enrolment forms: Tel. No.: 2436 8688 / 2436 8716 | Fax. No.: 2434 5695 | Email Address: ty-jcec@vtc.edu.hk

- 1 Registered vehicle mechanics who have switched to work in another vehicle maintenance workshop should notify the Vehicle Maintenance Registration Unit (VMRU) **by e-mail (vmru@emsd.gov.hk) or fax (3521 0243) and provide the name, address and telephone number of the new workshop.**
- 2 If a vehicle maintenance workshop intends to change its registration type or update its registered information (e.g. workshop name, registration number, address, contact number, or business registration certificate number, etc.), the person-in-charge of the workshop should notify the VMRU in writing **within 14 working days** of such change and submit the supporting documents for processing.

Figures on the Voluntary Registration Scheme for Vehicle Mechanics:

Total number of vehicle mechanics	9 338 ^{Note 1}
Number of registered vehicle mechanics (as at the end of July 2025)	7 361

Figures on the Voluntary Registration Scheme for Vehicle Maintenance Workshops:

Total number of vehicle maintenance workshops	2 228 ^{Note 2}
Number of registered workshops (as at the end of July 2025)	1 875

Note1: Consolidated figures from the latest Manpower Survey by the Automobile Training Board of the Vocational Training Council and database of the VMRU (updated in July 2025)

Note2: Figures from database of the VMRU (updated in July 2025)

To support environment protection, you are encouraged to opt for electronic copies of the RVM Newsletter and other relevant leaflets. Please send us the completed reply slip by e-mail (vmru@emsd.gov.hk) or WhatsApp (9016 3185). We will contact you through e-mail or mobile communication whenever possible.

Reply Slip

I/My company would like to receive the RVM Newsletter and other information leaflets by e-mail/ WhatsApp.
Please provide the contact details for the selected means of communication above:

Name: _____ Vehicle Mechanic Registration No.: VM _____

E-mail address: _____ WhatsApp: _____



The electronic copy of the RVM Newsletter is also available on the website of the Electrical and Mechanical Services Department (EMSD):

https://www.emsd.gov.hk/en/supporting_government_initiatives/registration_scheme_for_vehicle_maintenance/publications_and_circulars/rvm_newsletter/index.html

Note

1. Starting from 15 July 2018, new application for registration as Type Four workshop (i.e. a workshop situated at a residential building or a composite building with domestic part) is no longer accepted. Furthermore, requests for conversion from a registered Type One, Type Two or Type Three workshop to a Type Four workshop will not be entertained.
2. Applicants should affix sufficient postage and provide a return address when posting renewal application forms with envelopes not provided by the EMSD. If the postage is insufficient, the EMSD will not pay for any outstanding postage or accept the mail item concerned, which will be returned to the sender (if a return address is provided) or disposed of by the Hongkong Post.



- Q1.** What event was organised by the Vehicle Maintenance Registration Unit (VMRU) of the Electrical and Mechanical Services Department (EMSD) at the Digital Training Centre on the third floor of the EMSD Headquarters Building on the evening of 7 May 2025?
- A** Technical Seminar on Vehicle Maintenance
B VM Learning Station Workshop
C Briefing on the Registration Process of Electric Vehicle (High Voltage) Workshops
D Briefing on the Registration Process of Electric Vehicle (Low Voltage) Workshops
- Q2.** In what mode was the VM Learning Station Workshop conducted?
- A** Seminars
B Online lessons
C Small class teaching
D One-on-One teaching
- Q3.** After the first login to the VM Learning Station, users are required to change their password. The password must contain at least 8 characters, including
- A** At least one uppercase letter (A to Z), one lowercase letter (a to z), numbers (0 to 9) and symbols (such as ! and #)
B At least one uppercase letter (A to Z), numbers (0 to 9) and symbols (such as ! and #)
C At least one uppercase letter (A to Z), one lowercase letter (a to z) and numbers (0 to 9)
D At least one lowercase letter (a to z), numbers (0 to 9) and symbols (such as ! and #)
- Q4.** Compared to the traditional charging mode, what are the features of electric motorcycles equipped with replaceable batteries?
- A** High time efficiency
B Lower vehicle purchase cost
C Standardised battery specifications
D All of the above
- Q5.** What does the specialised charging system enable for multiple batteries to extend their lifespan?
- A** Centralised repair
B Maintenance
C Echelon use
D All of the above

How to participate (Issue No.50)

To support environmental protection, please scan the QR code or click the link (<https://vmcpd.emsd.gov.hk>) to log in to the VM Learning Station to submit your answers online. Participants may also complete the form below, circle the correct answers, and send it to the Vehicle Maintenance Registration Unit (VMRU) by post, fax (3968 7646) or e-mail (vmru@emsd.gov.hk) before deadline.



Name: _____

Vehicle Mechanic Registration No.: VM _____

E-mail Address: _____

Contact Tel. No.: _____

- Participants who correctly answer four of the questions will earn one CPD hour and be notified by the VMRU individually.
- Only registered vehicle mechanics with valid registration may participate, each not more than once in each quiz. Those who have already submitted their answers via the VM Learning Station need not submit them again by post, fax or email.
- In the case of duplicate submissions, only the last set of answers received before the deadline will be considered.
- The decision of the VMRU on the quiz will be final.
- The correct answers will be announced in the next issue of the RVM Newsletter.

Deadline: 31 October 2025

Question	Answer			
Q1	A	B	C	D
Q2	A	B	C	D
Q3	A	B	C	D
Q4	A	B	C	D
Q5	A	B	C	D

The answers for RVM Newsletter Issue No. 49 are as follows:

Question	1	2	3	4	5
Answer	C	D	A	B	A

Providing Continuing Professional Development Courses for Vehicle Mechanics (in random order)

Name of Training Institute	Website/Content	Enquiry Tel. No.	QR Code
Traffic Services Employees Association	http://www.facebook.com/tseahk	2575 5544	
Pro-Act Training and Development Centre (Automobile)	http://www.proact.edu.hk/automobile	2449 1310	
The Institute of the Motor Industry Hong Kong	http://www.hkimi.org.hk	2625 5903	
Hong Kong Vehicle Repair Merchants Association Limited	https://www.facebook.com/HKVRMA/	2399 7977	
Hong Kong Vehicle Repairing Industry Employee General Union	http://www.vrunion.hk	2393 9955	
Occupational Safety and Health Council	http://www.oshc.org.hk	2311 3322	
The Society of Operation Engineers (Hong Kong Region)	http://www.soe.org.hk	2617 0311	
Qualifications Framework recognised courses	http://www.hkqr.gov.hk	2836 1700	
Association of Auto Batteries and Tyres Industry	https://www.facebook.com/autobatteriestyres	6263 2531	
Hong Kong Institute of Vocational Education (IVE) In-service Training Office	EDIT.vtc.edu.hk	2435 9423 9081 5283	
KMB Academy	https://www.kmb.hk/	2786 6071	

Gentle Reminder

The content in each issue helps you catch up on the development of the registration schemes and enhance the quality of service. Please stay tuned!

Each issue is available for downloading on the EMSD website:

http://www.emsd.gov.hk/en/supporting_government_initiatives/registration_scheme_for_vehicle_maintenance/publications_and_circulars/rvm_newsletter/index.html



For enquiries on the content of the RVM Newsletter, please contact the VMRU of the EMSD.

 3521 0243  2808 3545  9016 3185  vmru@emsd.gov.hk

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