

It's Time for Checkup of Gas Pipes!

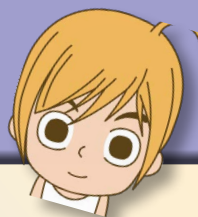
Safe Use of Escalators Everyone Can Do It



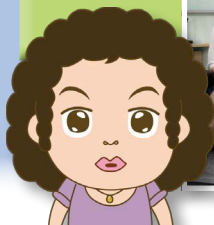
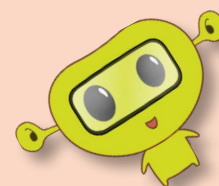
Energy Saving for All 2017 and 2018



Safe Ride on the Ropeway



Safety Tips on Household Electrical Products



From the Editor

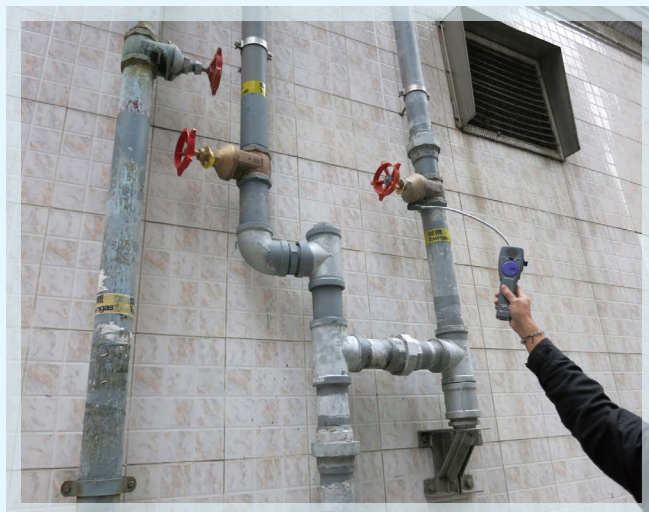
Thanks to your continuous support, E&M Safety Newsletter has come to its 28th issue with a rich variety of content to offer, including regular inspection and maintenance of gas service risers, safe use of escalators, safe ride on the ropeway, safety tips on electrical products, and Energy Saving for All 2017 and 2018. With the summer vacation just around the corner, we wish you a safe and joyous holiday.



It's Time for Checkup of Gas Pipes!

As we get older, doctors will recommend that we undergo regular body check for the protection of our health. In fact, gas supply pipes are no exception. Gas supply pipes on external walls of buildings are exposed to the sun and rain every day, and thus prone to corrosion. Even if they are installed indoors, they may be corroded due to factors such as humid air, and leakage from surrounding water pipes, and may even result in gas leakage unnoticeably. The majority of gas leakage incidents are caused by lack of regular inspection and maintenance of pipes. Serious gas leakage will lead to fire, explosion and even casualties or property loss. Moreover, if there is a risk that gas may leak from a pipe, the gas supply company concerned will suspend the gas supply where necessary for safety considerations and causing inconvenience to the residents. In fact, a pipe is like our body. With proper maintenance and care, the chance of it going wrong can be greatly minimised.

In general, the vertical pipes that supply gas to a building belong to the owners' corporation of the building, while the horizontal branch pipes belong to the owners of respective premises. The owners are responsible for the inspection and maintenance of these installations. The actual ownership of a specific installation can be identified



in the deed of mutual covenant of the building. According to the Code of Practice on Building Management & Maintenance published by the Government, the owners' corporation and persons/bodies charged with the duty to manage the common parts of a building (e.g. building management companies) are responsible for the regular inspection and maintenance of building services (including gas pipes) in the building to ensure that they are kept in good working order. For more details about the regular maintenance of service risers, please refer to the web page of the Electrical and Mechanical Services Department (EMSD) at https://www.emsd.gov.hk/en/gas_safety/gas_safety_tips_to_users/inspections_and_maintenance_of_service_risers/index.html.



Registered gas supply companies or gas distributors will conduct regular inspection of gas pipes for domestic users once every 18 months. Users should support such an arrangement. If scaffolding is to be erected on the entire building, the owners' corporation and the building management company may consider notifying the gas supply company or gas distributor concerned to arrange for inspection of the external gas pipes. This can make good use of the scaffolding and render the inspection of



pipes more effective. Non-domestic users (such as food establishments and institutions) should arrange for regular inspection and maintenance of gas installations owned by them to be carried out by registered gas contractors once every 12 months to ensure that they are in good condition and safe for use.

The list of registered gas contractors has been uploaded to the EMSD's web page at https://www.emsd.gov.hk/filemanager/en/content_261/overall_RGC.pdf. For any queries about the safety of gas installations or gas appliances, please call the 1823 hotline or visit the EMSD's website (www.emsd.gov.hk) for the relevant information.



Safe Use of Escalators

Everyone Can Do It



In Hong Kong, escalators have become part of our daily lives. Most of our citizens often use them to travel between floors within a building. Escalator safety is indeed very important to all. To ensure escalator safety and reduce the occurrence of incidents, appropriate maintenance and periodic inspection are indispensable, but proper use of escalators by passengers is equally important.

Effective Regulatory Mechanism

The design, installation, maintenance, commissioning and examination of escalators in Hong Kong are regulated by the Lifts and Escalators Ordinance (the Ordinance) (Cap. 618). Under the Ordinance, escalators used in Hong Kong must undergo periodic maintenance by the registered escalator contractors and periodic examination by the registered escalator engineers. The EMSD will conduct sample checks of the relevant maintenance and examination work to see if there is any non-compliance.

As regards the type approval mechanism for escalators, to ensure that the design of escalators complies with the

standards set out by the EMSD, the Ordinance stipulates that for escalators and all their safety components installed in Hong Kong, written approval by the Director of Electrical and Mechanical Services (DEMS) must be obtained prior to installation works. The Ordinance also stipulates that after completion of the installation works of the escalators, the responsible person must arrange for the escalators to be examined by a registered escalator engineer and certified to be in safe working order. Moreover, the escalators must be granted a use permit by DEMS before they are allowed to commence operation for public use.

Periodic Maintenance, Examination and Repair

As stipulated by the Ordinance, the responsible person for an escalator must ensure that the escalator and all its associated equipment or machinery are kept in a proper state of repair and in safe working order. The responsible person has to cause a registered escalator contractor to undertake the maintenance and repair work of the escalator, and ensure that periodic maintenance should be carried out by a registered escalator worker at intervals of not exceeding one month, while periodic examination should be carried out by a registered escalator engineer at intervals of not exceeding six months. In addition, the Code of Practice for Lift Works and Escalator Works and the Code of Practice on the Design and Construction of Lifts and Escalators formulated by the EMSD set out the relevant design requirements for the safety components and the specifications for escalator installation and maintenance. In view of the strict enforcement of the codes by the EMSD and taking into account that the registered persons (including contractors, engineers and



workers) are always duty bound to carry out periodic maintenance as appropriate, and the responsible person undertakes the management of the daily operation and repair of escalators in a professional manner, the public can rest assured that it is safe to use the escalators.

Be Careful and Hold the Handrail Tightly

It is, however, worth noting that most of the escalator incidents that happened in the past three years (99.8%) were not caused by equipment failure. Among these incidents, 94.3% were related to passengers' behaviours, while 5.5% were caused by external factors, for example, tiny foreign metal objects being caught in the gap between the step and the comb plate, thus triggering the safety device to stop the escalator. As long as passengers use the escalators properly, most escalator accidents can be avoided. Thus, escalator users should take note of the following safety tips:

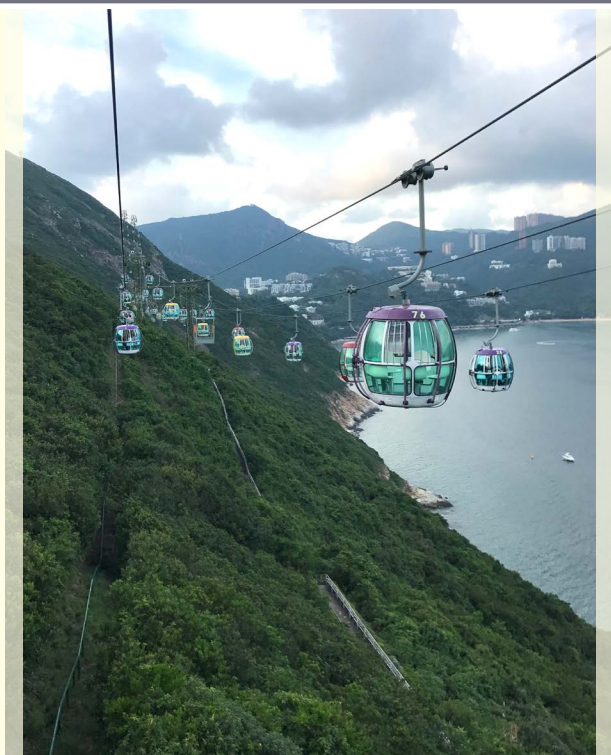
- ◆ Hold the handrail tightly and stand still when using escalators. Do not run or play on escalators.
- ◆ Do not only look at your mobile phone.
- ◆ Children must be accompanied by adults when using escalators.
- ◆ Senior citizens with impaired mobility, people in need and those carrying heavy objects such as baby prams, bicycles, wheelchairs or bulky baggage should use the lift.
- ◆ Do not use escalators to transport goods.
- ◆ Do not step on the yellow lines on the escalator step but stand firm between them.
- ◆ Remember to lift your foot when stepping off the

escalator. Avoid getting your shoes trapped in the gap between the step and the comb plate.

- ◆ When wearing plastic shoes, flip-flops, sandals or long dresses, watch out for the gaps on the two sides of the escalator and those between the steps. Do not touch the brush bristles on the two sides of the escalator to avoid trapping of any objects.
- ◆ Do not lean any part of your body beyond the escalator.



Safe Ride on the Ropeway



Ocean Park Cable Car

A ropeway system relies mainly on steel wire ropes suspended in mid-air for support and hauling the cars, and is thus very suitable for carrying passengers or goods up or down rugged hillsides. There are currently two ropeway systems in Hong Kong, namely the Ocean Park Cable Car and the Ngong Ping Cable Car.

Commenced operation in 1977, the Ocean Park Cable Car is used to carry passengers between the Waterfront and the Summit of the Park. The 1.4 km Ocean Park Cable Car system adopts a monocable design, and it takes eight minutes to finish the ride.

The 5.7 km Ngong Ping Cable Car system, which connects Tung Chung and Ngong Ping Village, was opened in 2006. It is the longest bi-cable ropeway system in Asia. The ride from Tung Chung to Ngong Ping takes 25 minutes.

The ropeway systems are equipped with safety devices such as anemometers to monitor the operation of cable cars. During operation, operators or automatic operating devices of the ropeway systems may adjust the speed of the cable cars or temporarily stop the movement of the cars based on operational needs. This is normal and there is no cause for alarm.



Ngong Ping Cable Car

In the boarding/alighting area of a cable car station, doors of the cars will open automatically while the cars will operate at a slower speed to allow sufficient time for passengers to board or leave. Passengers should follow the instructions of cable car operators and queue up in an orderly manner to board the cable cars. Besides, they should not board or leave the cable cars when doors are closing.

In addition, when taking a ride on the cable car, passengers are advised to remain seated, enjoy the scenery along the way, and keep in mind the following:

▲ Do not try to open the door of the cable car.

- ▲ Do not put your hands out of the windows.
- ▲ Do not bounce in the car and make it sway.
- ▲ Do not smoke, eat or consume any drinks other than water on the cable car.
- ▲ Do not carry any dangerous goods on board the cable car.
- ▲ Any person who is under the influence of alcohol or drugs or in a state of intoxication is not allowed to board the cable car.

Have a safe and fun ride!

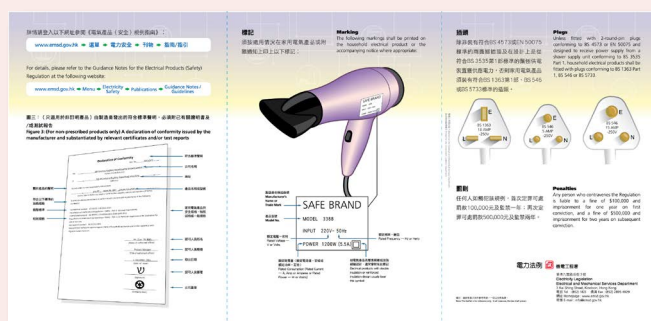
Safety Tips on Household Electrical Products

Household electrical products supplied in Hong Kong which operate at a voltage exceeding 50V a.c. or 120V d.c. are regulated by the Electrical Products (Safety) Regulation (the Regulation). Under the Regulation, suppliers of household electrical products supplied for use in Hong Kong must ensure that their products have been issued with a valid certificate of safety compliance beforehand. Suppliers should obtain relevant documentary proof from their supplying sources to confirm that the household electrical products have indeed been issued with certificates of safety compliance. It is important that suppliers should keep the relevant documentary proof for record purpose and for inspection by EMSD. However, the categories of persons that are regarded as suppliers and affected by the Regulation are wide-ranging. These include manufacturers, importers, wholesalers who supply electrical products designed for household use in Hong Kong; persons who sell or hire out household electrical products; and persons who give the household electrical products as a prize for commercial purposes or make a gift of such a product. The Guidance Notes for the Electrical Products (Safety) Regulation (the Guidance Notes) and related leaflets have been published and uploaded to the EMSD website for public reference.



Section B8 of Part III of the Guidance Notes specifies the detailed requirements of a valid certificate of safety compliance. The international standards applicable to some of the more common household electrical products are cited in item 1.2 of Section C1 of the Guidance Notes. Due to the innovations of household electrical products, please visit to the website of International Electrotechnical Commission for any information not covered in item 1.2 of Section C1 of the Guidance Notes.

In addition, unless fitted with two-round-pin plugs conforming to BS 4573 or EN 50075 and designed to receive power supply from a shaver supply unit conforming to BS 3535 Part 1, household electrical products shall be fitted with plugs conforming to BS 1363 Part 1, BS 546 or BS 5733.



Energy Saving for All 2017 and 2018

The Environment Bureau and the EMSD are jointly implementing the Energy Saving for All Campaign again this year to promote energy saving in all sectors to combat climate change. This is a good time to remind ourselves of the launching ceremony of the Energy Saving for All 2017 Campaign held on 18 May 2017. The Campaign comprised the Energy Saving Charter 2017, the 4Ts Charter, the Energy Saving Championship Scheme 2017 and the Award Presentation Ceremony of the Energy Saving Championship Scheme 2016.

Energy Saving Charter 2017

Over 3 300 organisations signed up to the Charter 2017 to engage staff and students to adopt the energy saving practices together. Sectors invited to sign up to the Charter were expanded to include restaurants, hotels, hospitals and more. Apart from maintaining the average indoor temperature at their premises between 24 and 26 degrees Celsius during the mid-summer months of June to September, they also pledged to switch off electrical appliances not in use and to procure energy-efficient appliances.

4Ts Charter

More than 1 000 premises pledged to sign up to the 4Ts Charter, which was launched for the first time in 2017. The 4Ts Charter aimed to promote energy saving by following the 4Ts of "Target", "Timeline", "Transparency" and "Together": setting a target with a timeline, ensuring transparency to track the energy saving result, and encouraging people to work together on the energy saving target.



Energy Saving Championship Scheme 2017

Launched in 2016, the Energy Saving Championship Scheme 2016 attracted participation from 279 premises. The winning organisations would take the lead to promote energy saving among the industries by sharing their exemplary experience in seminars, and uploading their energy saving measures to the "Energy Saving for All" website for publicity and sharing.

The Energy Saving Championship Scheme 2017 was a continuation of the 2016 scheme. This scheme aimed to give recognition to exemplary organisations with outstanding performance in the application, planning and promotion of energy saving, so as to encourage businesses to work together to save energy. Elements of the 4Ts were incorporated into assessment criteria in 2017 and the scheme's coverage was extended to ten categories of buildings, thereby promoting concerted efforts among the industries in energy saving.



A group photo of guests and representatives from relevant sectors taken before the start of the launching ceremony.

Photos of the Award Presentation Ceremony



The signing ceremony for the Energy Saving Charter 2018 and the 4Ts Charter was held after the launching ceremony of the Energy Saving for All 2017 Campaign. Photo shows the Secretary for the Environment, Mr WONG Kam-sing (front row, fourth right), and the then Director of Electrical and Mechanical Services, Mr Frank CHAN (front row, fourth left), with representatives of the signatories.



The Secretary for the Environment, Mr WONG Kam-sing (centre), the then Director of Electrical and Mechanical Services, Mr Frank CHAN (third left), and other guests start the Energy Saving Championship Scheme 2017.



環境局
Environment Bureau



機電工程署
EMSD

節能約章 2018 及 4Ts 約章

Energy Saving Charter 2018 and 4Ts Charter



Objective: to encourage business and community organizations to save energy

Energy Saving Charter 2018	4Ts Charter
<p>Pledging to</p> <ul style="list-style-type: none"> maintain an average indoor temperature between 24-26°C during the summer months switch off electrical appliances and systems when not in use and procure energy efficient electrical appliances and systems (such as Grade 1 energy labels, fridge with door) engage staff/ students to adopt the above energy saving practices together 	<p>Pledging to</p> <ul style="list-style-type: none"> set energy saving target with a timeline ensure transparency to track energy saving result encourage inhabitants to work together on the above energy saving target
<p>Categories</p> <ul style="list-style-type: none"> Shopping Mall Office/Commercial/Industrial Building Housing Estate/Residential Building Office Shop 	<ul style="list-style-type: none"> Non-governmental Organisation/Community Facility Kindergarten/Primary School/Secondary School/Post-Secondary Education Institution Hotel Hospital Others

Please refer to the website
(<http://www.energysaving.gov.hk/esc2018/en/charter/index.html>)
for details.
For enquiries, please contact the Secretariat
Tel. 3155 3777





The Energy Saving Charter 2018 and the 4Ts Charter will continue to be held in 2018 to encourage businesses and community organisations to save energy. For more details of the Energy Saving for All 2018 Campaign, please visit the thematic website: www.energysaving.gov.hk.



The E&M Young Ambassador (EMYA) Programme is organised by the EMSD to empower youngsters to become ambassadors of the EMSD. We hope that by equipping our ambassadors with solid knowledge of E&M safety, energy efficiency and E&M engineering through various interesting activities, they can help us to disseminate the right messages and best practices to their friends and families. We will regularly organise a wide spectrum of activities for our ambassadors, which include visits to E&M organisations, job shadowing activities and annual gatherings. Once enrolled on the Programme online, ambassadors may participate in these activities free of charge. For details of the activities and member registration, please visit the website of EMYA Programme at emya.emsd.gov.hk or scan the following QR Code.



Member Recruitment



Photo shows the Deputy Director of EMSD (Regulatory Services), Mr Harry LAI Hon-chung (first right) and the Integration Team's champion awardees from St. Teresa Secondary School in the Award Presentation Ceremony of Gerontech Youth Challenge

E & M Safety Quiz

Please fill in the reply slip below with **the most appropriate answer** for each question and send it by post or by fax to the Editor, E&M Safety Newsletter (contact information is shown at the bottom of this page). The first 500[1] of the quiz participants answering all questions correctly will receive a souvenir (on a first-come-first-served basis).

- How often should domestic users and non-domestic users arrange for regular inspection of gas pipes and installations owned by them to be carried out?**
 - Domestic users: once every 18 months; non-domestic users: once every 12 months
 - Domestic users: once every 12 months; non-domestic users: once every 12 months
 - Domestic users: once every six months; non-domestic users: once every 12 months
 - Domestic users: once every 12 months; non-domestic users: once every six months
- Which of the following is a recommendation for safe use of escalators?**
 - Hold the handrail tightly and stand still when using escalators
 - Do not only look at your mobile phone
 - Do not step on the yellow lines on the escalator step but stand firm between them
 - All of the above
- Which of the following behaviours is incorrect when taking a ride on the cable car?**
 - Follow the instructions of cable car operators
 - Remain seated and enjoy the scenery along the way
 - Smoke, eat or drink
 - Queue up in an orderly manner to board
- According to the Electrical Products (Safety) Regulation, the suppliers of household electrical products supplied for use in Hong Kong must ensure that their products have been issued with a valid certificate of safety compliance beforehand. Who will be regarded as suppliers and persons affected by the Regulation?**
 - Manufacturers who supply electrical products designed for household use in Hong Kong
 - Persons who hire out household electrical products
 - Persons who give the household electrical products as a prize for commercial purposes or make a gift of such products
 - All of the above
- Which of the following can represent the 4Ts of the 4Ts Charter this year?**
 - Setting a target with a timeline
 - Transparency
 - Work together
 - All of the above

REPLY SLIP^[2]

Name:		Tel:		
Hong Kong Address:				
答案：				
Q1	Q2	Q3	Q4	Q5

[1] Only the first 500 of the quiz participants sending in the Reply Slip with all answers correct will be notified.

[2] The personal data provided in the Reply Slip will only be used for the E & M Safety Quiz purpose. It will be kept confidential and will not be disclosed to any third party. You have the right to request in writing to check whether the EMSD is keeping your personal data, to access or correct it, and to enquire about our policy and procedures in the use of such data as well as the types of personal data we are keeping. The above terms do not affect your rights as set out in the Personal Data (Privacy) Ordinance.

Answers to last issue's quiz: 1. A 2. D 3. D 4. D 5. D

Feedback

Both the English and Chinese versions of this *E&M Safety Newsletter* are available on our web page at www.emsd.gov.hk. Your enquiries and comments are most welcome. Please write to:

The Editor, E&M Safety Newsletter
Electrical and Mechanical Services Department
3 Kai Shing Street, Kowloon

Tel 電話：1823 (Call Centre 電話中心)

Fax 傳真：2576 5945

Email 電郵：info@emsd.gov.hk

歡迎讀者就版面或內容提出寶貴意見及建議，使我們能作出改善，務求為大家提供更多有用和有趣的資料。如欲提出意見或查詢，請與我們聯絡。《機電與我》中文及英文版均可於我們的網頁 (www.emsd.gov.hk) 內瀏覽。

機電工程署《機電與我》編輯
九龍啟成街3號

