

Amusement Rides

Safe Use of

What to Note about

Clothing and Personal Articles

What to Do When Trapped in a Lift



Full Implementation of the New Cable Colour Code from 1 July 2009

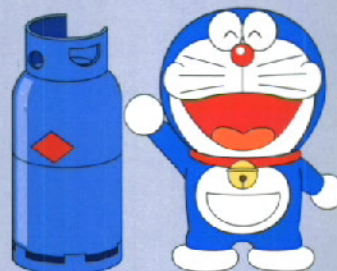
Old colour cable	New colour cable
Red	Brown
Black	Blue
Yellow	Brown
Black	Blue
Blue	Brown
Black	Blue

single phase installation

Old colour cable	New colour cable
Red	L1 Brown
Yellow	L2 Black
Blue	L3 Grey
Black	N Blue

three-phase installation

Safe Use and Storage of LPG Cylinders



Natural Gas Development in Hong Kong



Editor's Notes

This is the 11th issue of the E & M Safety Newsletter. We would like to express our heartfelt thanks for your continuous support. You will find in this issue of the E & M Safety Newsletter much information on electrical and mechanical safety as shared by cartoon characters, including appropriate actions to be taken when trapped in a lift, the safe use of amusement rides and household electrical appliances such as electric fans and washing machines, and how to use and store LPG cylinders safely. Summer vacation is just around the corner. We wish you all a joyous holiday.



What to Do When Trapped in a Lift

Point 1

Do not panic, stay calm. Passengers should press the alarm button to seek help or use the intercom in the lift car to communicate with the building management staff or the lift technicians. Follow instructions and wait in the lift car for help. The alarm bell and emergency lights in the lift car are equipped with stand-by power for use in case of a lift stoppage due to power failure. Trapped passengers may also call for help aloud.

Point 2

As the lift may suddenly resume operation, trapped passengers must never attempt to escape by forcing open the lift car doors or the emergency trap door on the ceiling of the lift car, lest serious accidents may occur.

Point 3

The safety features and emergency equipment of lifts are designed in such a way that they can ensure the safety of trapped passengers. As long as passengers follow instructions, keep clam and communicate with people outside, it is always safer to wait inside the lift car for help.



Safe Use of

Amusement Rides

What to Note about

Clothing and Personal Articles



Leisure and recreation is a key part of our lives. Going to theme parks or family entertainment centres is enjoyable and good for health. If we pay attention to the following tips on clothing and personal articles before getting on amusement rides, we can have more fun while ensuring safety.

As most theme parks are outdoors, we should heed weather reports before heading to the park, so that we can take the appropriate protective items against sunburn, such as umbrellas, hats and sunscreen lotion to reduce the harm from UV radiation. We should apply insect repellents to exposed skin and clothing to avoid mosquitoes.

Our clothing and outfits when taking amusement rides are also very important. Try to wear light, permeable clothing and comfortable shoes. Make sure that shoelaces are properly tied.

Those with long hair should ensure that they tie it up properly before getting on a ride, to prevent injuries caused by hair tangled up in the ride. We should also remove all loose personal articles such as hats and sunglasses, as these may fall off and hurt ourselves or others while the ride is in motion.

If we observe these tips and safety rules, we can have more fun using amusement rides. To learn more about amusement ride safety, visit the EMSD Safe Park interactive website to learn the safety rules via its virtual park. The website is <http://www.emsd.gov.hk/emsd/eng/pps/HongKongSafePark/flash/index.htm>

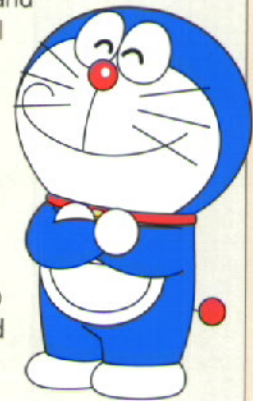
Parents may also use the safety tips to teach their children how to use amusement rides safely.

Communal Electrical Installations in Buildings Must be Inspected at Least Once Every 5 Years

Nobita's family saw on television news a fire which broke out in an old building due to short-circuiting.



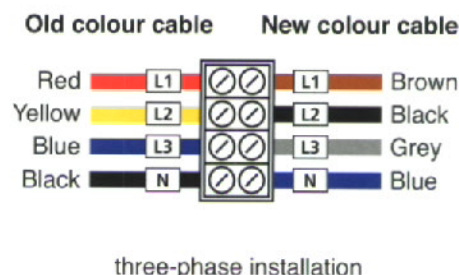
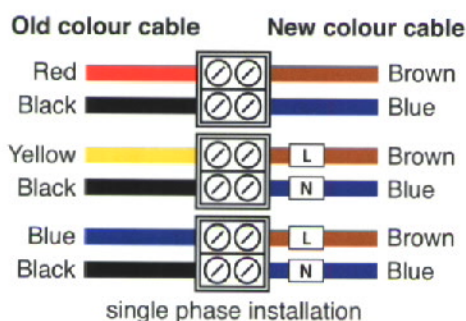
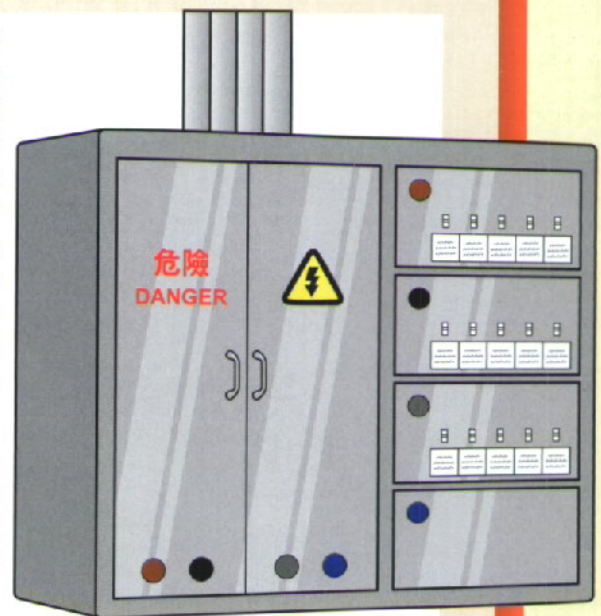
"The law stipulates that owners of communal electrical installations in ordinary buildings, including property owners, tenants, occupiers, incorporated owners and property management agents, shall have their installations inspected, tested and certified at least once every 5 years. It is almost 5 years since we last inspected and tested the communal electrical installations in this building. We should contact the other owners at once to arrange for a registered electrical contractor to inspect and test the installations so as to ensure safety and avoid prosecution."



Full Implementation of the *New Cable Colour Code* from 1 July 2009

After a two-year grace period, from 1 July 2009 onwards, the colours of the cables for all new fixed electrical installations, as well as additions and alterations to existing fixed electrical installations, will be changed from red/yellow/blue (for the phase conductor), black (for the neutral conductor) and green-and-yellow (for the protective conductor) to brown/black/grey (for the phase conductor), blue (for the neutral conductor) and green-and-yellow (for the protective conductor). If additions or alterations are to be carried out to existing ordinary household electrical installations, the colour of the single phase cable, be it red/black (for the phase/neutral conductor), yellow/black (for the phase/neutral conductor) or blue/black (for the phase/neutral conductor), should be changed to brown/blue (for the phase/neutral conductor). Members of the public should note the following:

- All electrical works must be carried out by registered electrical contractors.
- The changes only apply to new fixed electrical installations as well as additions and alterations to existing fixed electrical installations. Cables for existing electrical installations and electrical products will not be affected, so it is not necessary for the general public to replace the old colour cables.
- The use of new colour cables should not entail any additional works cost if installation owners intend to replace the existing cables.



Employ a Registered Electrical Contractor to Carry Out Electrical Works

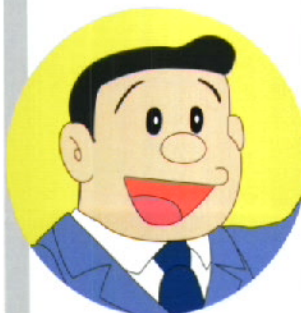
Dad, I have installed a computer in my room and there are not enough socket outlets. We should get someone to add more.

The law stipulates that for any electrical works carried out in Hong Kong, even minor electrical works like adding socket outlets, the owner of an electrical installation must employ a registered electrical contractor to undertake

the electrical works. Failing to do so will constitute an offence. After completion of the works, the electrical contractor and worker must issue a Work Completion Certificate (WR1) to confirm that the completed electrical installation complies with statutory safety requirements.



Where can I obtain information on registered electrical contractors?

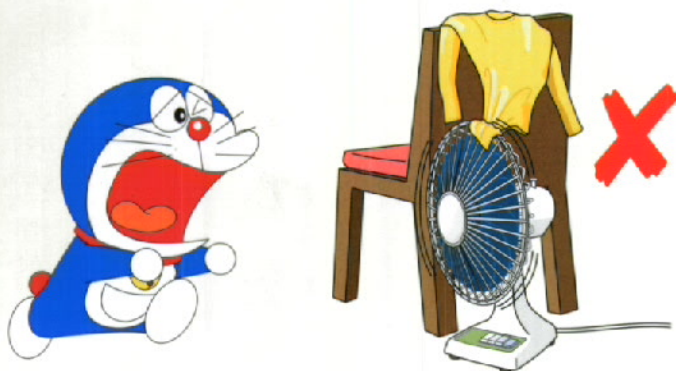


Information on registered electrical contractors is available at the Public Enquiry Service Centres of all District Offices or the Customer Services Office of the EMSD at 3 Kai Shing Street, Kowloon Bay. It can also be downloaded from the EMSD web page (www.emsd.gov.hk → Protecting Public Safety → Electricity → Registers).



Electric Fans Safety Tips

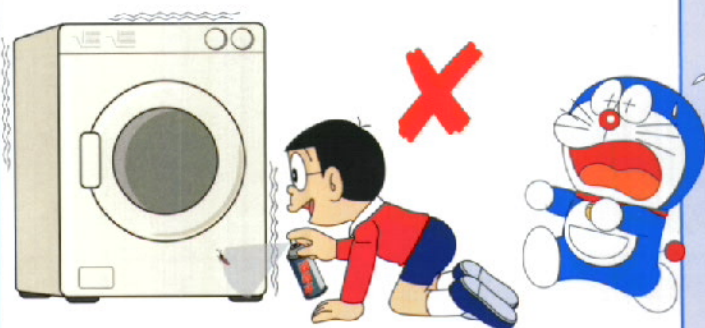
- 🐾 Allow sufficient space for free movement and heat dissipation of a fan.
- 🐾 Check if the flexible cord connecting the moving parts of a fan has been worn out by prolonged use. A damaged cord may cause short-circuit or exposure of live wires.
- 🐾 When operating normally, a fan should not have excessive noise or vibration, or show signs of overheating such as deformation, discolouration or charring, or loosening.
- 🐾 Prevent objects such as paper and clothing from being sucked into a fan.



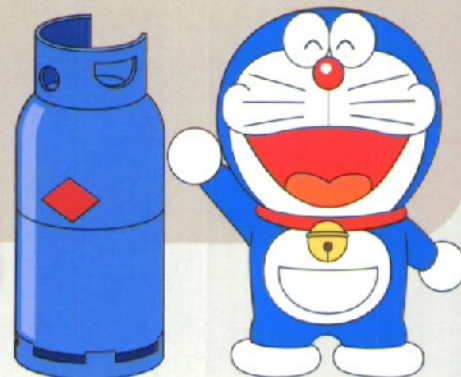
- 🐾 Switch off a fan before leaving home.
- 🐾 Clean a fan regularly according to the user manual. Unplug a fan before cleaning and avoid splashing water into it.
- 🐾 Arrange for regular maintenance by an experienced technician.
- 🐾 Stop using a fan immediately when safety is in doubt, and arrange for inspection by an experienced technician.

Washing Machines Safety Tips

- 🔧 Do not place a washing machine in a humid place or an area where water may accumulate, such as a bathroom, balcony or other outdoor areas, to prevent the inner components of the machine from getting wet, thus causing electricity leaks and fire.
- 🔧 Remove all articles such as coins from pockets before washing, and clear the drainage filter regularly to prevent overheating of the water pump motor due to accumulation of foreign objects.
- 🔧 Use the machine according to instructions in the user manual. Do not exceed the loading capacity specified in the manual to avoid overheating of the appliance caused by overloading or prolonged washing.
- 🔧 Avoid leaving an operating washing machine unattended.
- 🔧 Do not spray combustible chemicals such as pesticides near an operating washing machine to avoid explosion.



Safe Use and Storage of LPG Cylinders



Cylinder LPG

Liquefied petroleum gas (LPG) in Hong Kong is a mixture of propane and butane. It is non-toxic but inflammable. As the density of LPG is higher than that of air, it can accumulate at floor level. LPG is pressurised and stored in liquid form in portable cylinders for different usage.

Storage of LPG Cylinders

According to the Gas Safety Ordinance, unless approved by the Gas Authority, storing LPG cylinders (including empty cylinders) with a total nominal water capacity of over 130 litres (approximately 50 kg nominal weight) is prohibited. The table on the right lists the maximum numbers of cylinders permitted for storage for some common sizes of LPG cylinders for reference.

To ensure gas safety, LPG cylinders should be stored upright in a well-ventilated and readily accessible location and kept away from flames. LPG cylinders should not be kept adjacent to or together with inflammable objects. Nor should they be used or kept below ground level, adjacent to drains or in basements, and ideally far away from trees and plants. If possible, it is recommended that a well-ventilated LPG cylinder storage chamber be constructed for storing LPG cylinders. For construction of LPG cylinder storage chambers, please refer to the Code of Practice GU06, which can be downloaded from the EMSD website <http://www.emsd.gov.hk>.

Nominal LPG Weight (kg)	Permitted Number of Cylinders
2	27
8	6
10.5	5
12 – 13.5	4
15 – 16	3
21 – 22	2
45 – 50	1

If possible, it is recommended that a well-ventilated LPG cylinder storage chamber be constructed for storing LPG cylinders. For construction of LPG cylinder storage chambers, please refer to the Code of Practice GU06, which can be downloaded from the EMSD website <http://www.emsd.gov.hk>.

Purchase LPG Only from Approved LPG Distributors

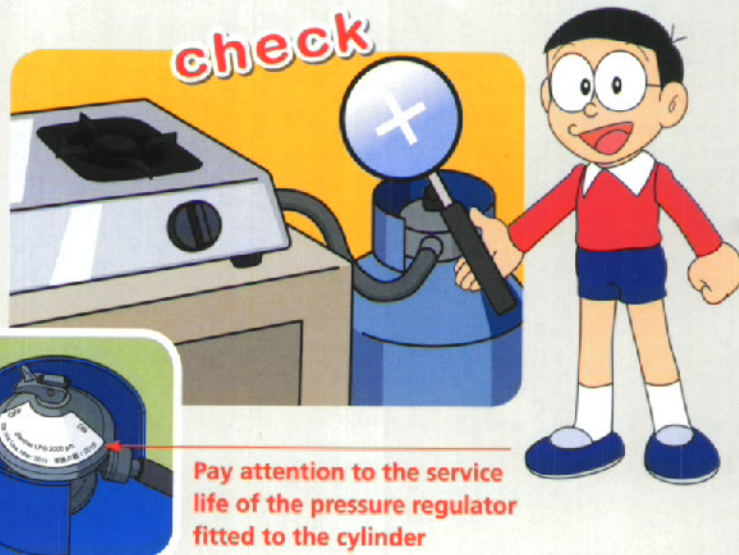
Users should purchase LPG only from approved LPG distributors. This is because approved LPG distributors are subject to the monitoring of registered gas supply companies, and are in the position to give general advice and support relating to LPG safety and works to customers, as well as conduct regular checks of gas installations for customers, thus ensuring gas safety.

Use of LPG Cylinders

When using LPG cylinders, you should first check the cylinder and pressure regulator for any damage or leaks. Use only the pressure regulator provided by the respective gas supply company, and protect it from damage. Turn off the pressure regulator switch after use. Disconnect the pressure regulator if it will not be used for a long period of time. Check the flexible gas tubing for loose connections, damage or leaks. Ask your registered gas contractor for replacement if you find any defects. Keep inflammable objects away from gas appliances. Never leave any gas appliance in operation unattended.

Safe Exchange of LPG Cylinders

Users should ensure adequate ventilation and switch off gas appliances when exchanging LPG cylinders. Extinguish all nearby flames, do not smoke, and switch off and disconnect the pressure regulator before replacing the used LPG cylinder. Re-connect the pressure regulator to another LPG cylinder carefully and firmly, and check whether there is any smell/noise of gas leaks from the LPG cylinder connection. Lastly, switch on the pressure regulator and check if the gas appliance is operating normally.



Pay attention to the service life of the pressure regulator fitted to the cylinder

Used or Abandoned LPG Cylinders

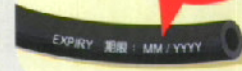
All used LPG cylinders should be returned to the gas distributors as soon as possible and should not be left in public places. For safety's sake, anyone who finds abandoned or unattended LPG cylinders should phone the respective gas supply company for collection, and must not deliver them to scrap iron collectors to avoid danger.

Carry out safety checks once every 18 months

Regular Checks of LPG Installations

Customers should arrange for a registered gas contractor to check their household LPG installations at least once every 18 months, to ensure that the installations are in good condition. If, during the safety inspection, the customer notes that the flexible gas tubing has reached the end of its service life (as indicated by the marking on the flexible gas tubing), the customer should arrange for a registered gas contractor to replace the gas tubing before the expiry date. The public may find the list of Registered Gas Contractors on the EMSD website for reference.

Pay attention to the service life of the flexible gas tubing



Natural Gas Development in Hong Kong

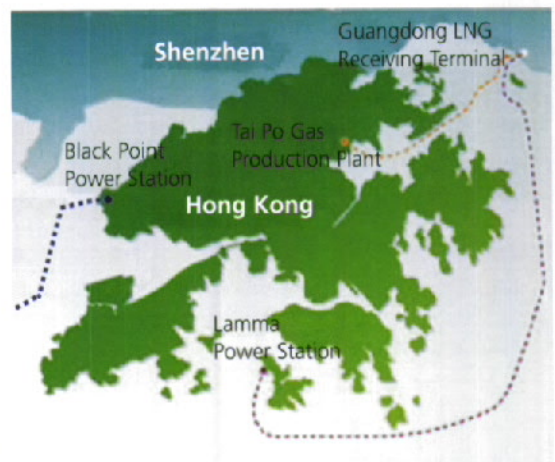
Natural gas is clean and environment-friendly with low emissions, and is closely related to our daily lives. Natural gas is used to produce some of the electricity and town gas in Hong Kong by our three public utilities, namely CLP Power Hong Kong Limited (CLP), Hongkong Electric Company Limited (HK Electric) and The Hong Kong and China Gas Company Limited (Towngas).

CLP began introducing natural gas to generate electricity as early as 1996, with natural gas supplied via a 780-kilometre submarine pipeline from the Yacheng gas field off Hainan Island to the Black Point Power Station. HK Electric began using natural gas to generate electricity in mid-2006. Natural gas is supplied through a 93-kilometre submarine pipeline from the Liquefied Natural Gas (LNG) Receiving Terminal in Guangdong to its Lamma Power Station. Compared to coal, using natural gas to generate electricity reduces significantly the emissions of nitrogen oxides, carbon dioxide, sulphur dioxide and particulates. It is certainly conducive to improving air quality.

Towngas also began to import natural gas in mid-2006 through a 34-kilometre twin submarine pipeline from the above-mentioned LNG terminal in Guangdong to its Tai Po Gas Production Plant. Natural gas is used to partially replace naphtha as feedstock for town gas production. The use of natural gas not only helps to reduce the emissions of carbon dioxide, sulphur dioxide and nitrogen oxides, but also enables a more stable supply of town gas.

The Chief Executive stated in the Policy Address 2008-09 that the Government would "actively explore ways to gradually increase the use of clean energy by, for example, increasing the proportion of natural gas for local electricity generation to 50%" in order to improve air quality. In August 2008, the Hong Kong SAR Government and the Mainland's National Energy Administration signed a Memorandum of Understanding on energy cooperation. It was agreed to conduct a feasibility study on the supply of natural gas to Hong Kong via the Second West-East Natural Gas Pipeline. By now, construction of the eastern section of the Second West-East Natural Gas Pipeline has officially commenced. Relevant enterprises in Hong Kong have been planning for construction of gas pipelines connecting to Hong Kong, with the project expected to be completed by 2013.

As the territory's gas safety regulator in Hong Kong, EMSD keeps a close eye on the natural gas facilities and pipelines. Apart from approving the design and construction of new natural gas facilities, EMSD also monitors the operation and maintenance of existing facilities to ensure compliance with gas safety requirements.



- Submarine pipelines (to Tai Po Gas Production Plant)
- Submarine pipelines (to Lamma Power Station)
- Submarine pipelines (to Black Point Power Station)

Natural Gas Pipelines in Hong Kong



Gas Receiving Station in Lamma Power Station



E & M Safety Quiz

Please respond to each question below with **the most appropriate** answer and send the completed reply slip by post or by fax to the Editor, E & M Safety Newsletter (please see the bottom of this page for contact information). A souvenir will be given to the first 500 participants^[1] who submit correct answers to all questions (on a first-come-first served basis).

- 1. Which of the following is the right thing to do when trapped in a lift?**

 - Escape from the lift car by forcing open the lift car doors.
 - Do not panic. Stay calm. Press the alarm button to seek help and wait in the lift car for rescue.
 - Escape from the lift car by forcing open the emergency trap door on the ceiling of the lift car.
 - Do not follow instructions. Do not wait in the lift car for rescue.
- 2. To use the amusement ride safely, which of the following should we take off before getting on the ride?**

 - Socks
 - Clothes
 - Hats
 - Shoes
- 3. How often should owners of communal electrical installations in ordinary buildings (including property owners, tenants, occupiers, incorporated owners and property management agents) have their installations inspected, tested and certified?**

 - every year
 - every 5 years
 - every 6 years
 - every 10 years
- 4. What is the date of full implementation of the new cable colour code in Hong Kong?**

 - 01/07/2009
 - 01/07/2008
 - 01/07/2007
 - 01/09/2009
- 5. How often should a customer arrange for a registered gas contractor to carry out a safety check of his/her household LPG installation to ensure that the installation is in good condition?**

 - every 6 months
 - every year
 - every 18 months
 - every 2 years
- 6. How many public utilities in Hong Kong are utilising natural gas?**

 - 1
 - 2
 - 3
 - 4

REPLY SLIP ^[2]					
Name:			Tel.:		
Hong Kong Address:					
Answers:					
Q1	Q2	Q3	Q4	Q5	Q6
Where did you get this E&M Safety Newsletter?					
Residential estate	School	District Office	New immigrant centre		
Others (please specify):					

[1] Only the first 500 participants sending in the Reply Slip with all correct answers 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: 1.D 2.D 3.C 4.B 5.B 6.C

Feedback

Your comments and suggestions, whether on editorial style or contents, are most welcome. Tell us how we can improve and make the E & M Safety Newsletter a truly informative and interesting publication for you. Both the English and Chinese versions of the E & M Safety Newsletter are available on our website at <http://www.emsd.gov.hk>. Please contact us should you need a printed copy.

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