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Pleasure Vessel Operator Grade 2

Exam Intensive Reading (Part A) Navigation, Seamanship and Safety

First edition



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PLEASURE VESSEL OPERATOR GRADE 2 CERTIFICATE - EXAMINATION GUIDELINES

A Pleasure Vessel Operator Grade 2 Certificate entitles the holder to take charge of a pleasure vessel that is of not more than 15 m in length overall operating in Hong Kong waters.

The Pleasure Vessel Operator Certificate II examination comprises a written assessment divided into two sections: Part A and Part B. Part A addresses navigation, seamanship, and safety, whereas Part B focuses on marine engineering knowledge. Each section contains 40 multiple-choice questions, with a passing requirement of 60% (i.e., 24 questions answered correctly). The examination is conducted over a duration of 45 minutes utilizing an interactive computer system.

Examination Address: 1st Floor, Vocational Training Council Building, 27 Wood Road, Wan Chai, Hong Kong

You are required to present your identification document at the examination.

1. 考生須知 2. 說明

剩餘: 43 分鐘 28 秒

二級遊樂船操作員 - 甲部 第 18 條

18.  圖中這訊號具有甚麼意義?

(A) 船隻之操縱能力受到限制。
(B) 下滿碇的船舶，進行水底工程。
(C) 船舶遇難求救訊號。
(D) 船上有人跌落海。

你選擇的答案是:

A B C D

3. 上一條題目 4. 下一條題目 5. 覆核標示 6. 交卷/考試總結

覆覽欄

1	2	3	4	5	6	7	8
9	10	11	12	13	14	15	16
17	18	19	20	21	22	23	24
25	26	27	28	29	30	31	32
33	34	35	36	37	38	39	40

已經回答的題目
 被標示的題目
 尚未回答的題目
 已經回答並標示的題目

Candidates must successfully complete both components of the examination to receive a Pleasure Vessel Operator Certificate (Class II). Each component of the examination will be evaluated separately, and a passing result will be valid for two years from the date of achievement.

香港特別行政區遊樂船隻操作人合格證明書
HONG KONG SPECIAL ADMINISTRATIVE REGION
PLEASURE VESSEL OPERATOR CERTIFICATE OF COMPETENCY

陳大明 CHAN TAI MING

操作人等級 Operator Grade 2 有效期至 Valid Until 01-01-2050

出生日期 Date of Birth 01-01-1985 簽發日期 Date of Issue 22-08-2014

規限 Restriction(s):
只可在日間操作。 Day time operation only
需用助視鏡。 With visual aids
適用操作長度不超過 15 米的遊樂船隻
valid to operate a pleasure vessel of not more than 15 m in length overall

香港海事處 HONG KONG MARINE DEPARTMENT No. PV 016002
根據《本地船隻條例(第548章)》簽發
Issued under Merchant Shipping (Local Vessels) Ordinance (Cap. 548)

M.O. 905 (持證人須在獲授權人員要求時出示身份證明文件) P.T.O.



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Victoria Harbour boundaries

Eastern boundary: The dashed line extending from Lei Yue Mun Lighthouse to A Kung Ngam Lighthouse in Shau Kei Wan.

Western Boundary - There are 3 lines in total.

1. The dashed line extending from Kennedy Town in the Western District to the lighthouse located on the western side of Green Island.
2. The dashed line extending from the lighthouse on the western side of Green Island to the southernmost point of Tsing Yi Island.
3. The dashed line extending from the northern tip of Tsing Yi Island to Ting Kau.

Victoria Harbour main fairways

- | | |
|-------------------------------|--------------------------------------------------------------------------------------------------|
| 1. Eastern Fairway | : From Lei Yue Mun to the waters near North Point Pier |
| 2. Hung Hom Fairway | : From the waters near North Point Pier to the waters near Tsim Sha Tsui |
| 3. Central Fairway | : From the waters near Tsim Sha Tsui to the waters near Sheung Wan |
| 4. Southern Fairway | : From the waters near Sheung Wan to the south of Green Island |
| 5. Northern Fairway | : From the waters near Sheung Wan to the west of Stonecutters Island |
| 6. North Green Island Fairway | : Extending from the waters off Sai Wan to the northern region of Green Island. |
| 7. Yau Ma Tei Fairway: | : Extends northward from the waters adjacent to China Port Terminal to the Yau Ma Tei Anchorage. |

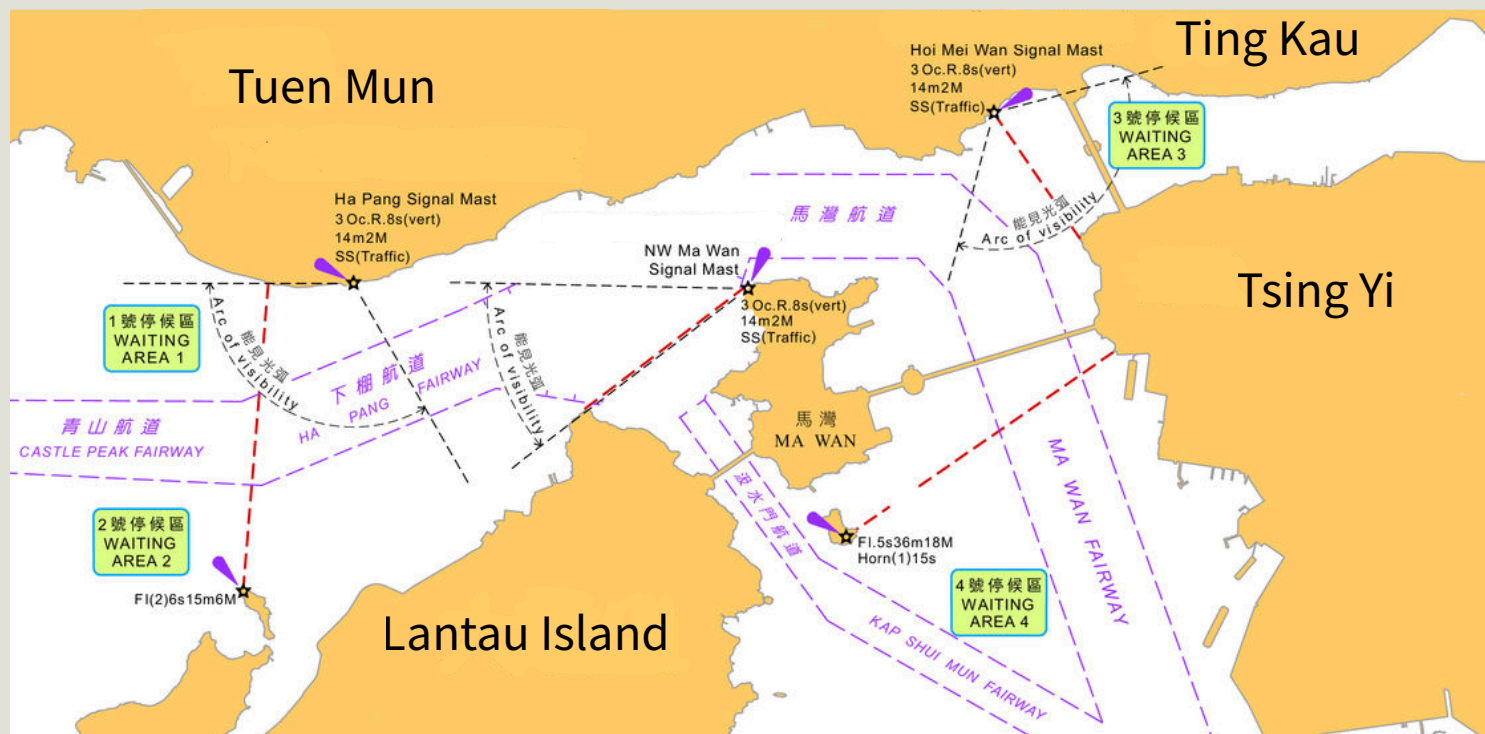
Beyond Victoria Harbour

1. Western fairway: Extending from the waters west of Green Island to southwest of Tsing Yi Island.
2. Ma Wan Fairway: Extending from the waters west of Tsing Yi Island to those north of Ma Wan.
3. Kap Shui Mun Fairway: Extending from the waters west of Tsing Yi Island to those southwest of Ma Wan.





Ma Wan Marine Traffic Control System



- Ma Wan employs a specialized marine traffic control system to guarantee safe navigation through the Ma Wan Fairway. When large vessels, deep-draft vessels, disabled vessels, vessels transporting specific categories of hazardous materials, or other specialized vessels are preparing to traverse the area, the Ma Wan Traffic Control Station will temporarily limit the movement of local and river trade vessels through the use of signal lights, VHF radio communications, and on-site patrol boats.
- When the signal light displays three red lights in a vertical configuration (flashing once every eight seconds [five seconds illuminated, three seconds extinguished]) as a warning signal, vessels subject to navigation restrictions must remain in the designated waiting area until the warning light ceases.

Hoi mei Wan Signal Mast

- When westbound or northbound vessels observe the three red lights on the Hoi mei Bay signal tower, they are generally required to wait in waiting areas 3 and 4.

Ha Pang Signal Mast, and NW Ma Wan Signal Mast

- When eastbound vessels observe three red lights on the signal Mast at Ha Pang or the NW Ma Wan, they are typically required to wait in waiting areas 1 or 2, or to navigate through the Kap Shui Mun fairway.

Kap Shui Mun Special Area

- The Government has designated the Kap Shui Mun fairway, situated between Lantau Island and Ma Wan Island, as a Special Area to improve navigation safety in the waters surrounding Kap Shui Mun and Ma Wan.
- Vessels exceeding an overall length of **10 meters** may only access the Kap Shui Mun fairway from the northwest and navigate southeast; they are prohibited from entering from the southeast and proceeding northwest.
- Vessels measuring 10 meters in length or less are permitted to enter and navigate the Kap Shui Mun fairway from either side.
- Vessels with height greater than 41 metres are prohibited from navigating the Kap Shui Mun Channel, as the Kap Shui Mun Bridge has a Vertical clearance of 41 metres.
- Vessels transporting hazardous materials are prohibited from utilizing the Kap Shui Mun Channel.





Prohibited or restricted navigation zones

1. Hong Kong Macau Ferry Terminal
2. China Ferry Terminal
3. Kai Tak cruise terminals
4. Shing Mun River
5. Barracks Area of Stonecutters Island
6. Within 100 meters of the low tide line of Green Island
7. Within 100 meters of the low tide line of Wang Lang Island

No designated anchorage area.

- 1. All submarine cable zones, cable reserved areas, and submarine tunnels.
- 2. Lei Yue Mun Channel, Sulphur Channel, and their adjacent waters.
- 3. All major fairways, typhoon shelters, entrances/exits of piers, and their nearby waters.
- 4. Any location where a vessel at anchor would obstruct other moored vessels, piers, or shipyard areas.
- 5. Within 500 metres of any place storing explosives or vessels, unless prior approval is obtained from the Director of Marine.
- 6. Areas with signs or notices explicitly prohibiting anchoring.
- 7. The Hong Kong Disneyland International Theme Park area.



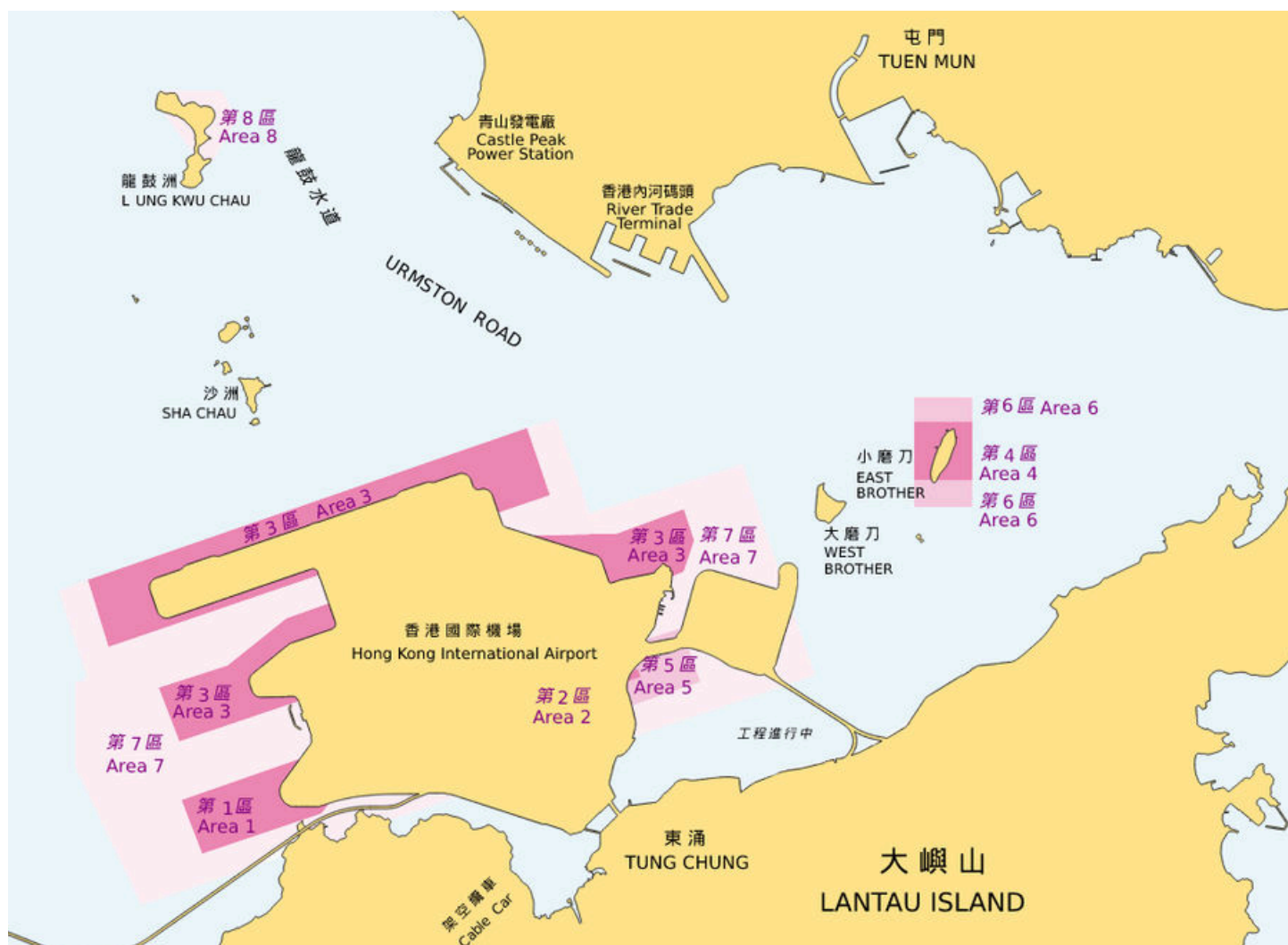


Restricted Zones at Hong Kong International Airport

- 第 1-4 區 : 任何船隻不得進入或通過。
 Area No. 1-4 : No vessel shall pass through or enter

- 第 5-6 區 : 凡高度超過海拔 15 米的船隻不得進入或通過。
 Area No. 5-6 : NO vessel which has a height exceeding 15 meters above sea level shall enter or pass through

- 第 7-8 區 : 凡高度超過海拔 30 米的船隻不得進入或通過。
 Area No. 7-8 : NO vessel which has a height exceeding 30 meters above sea level shall enter or pass through

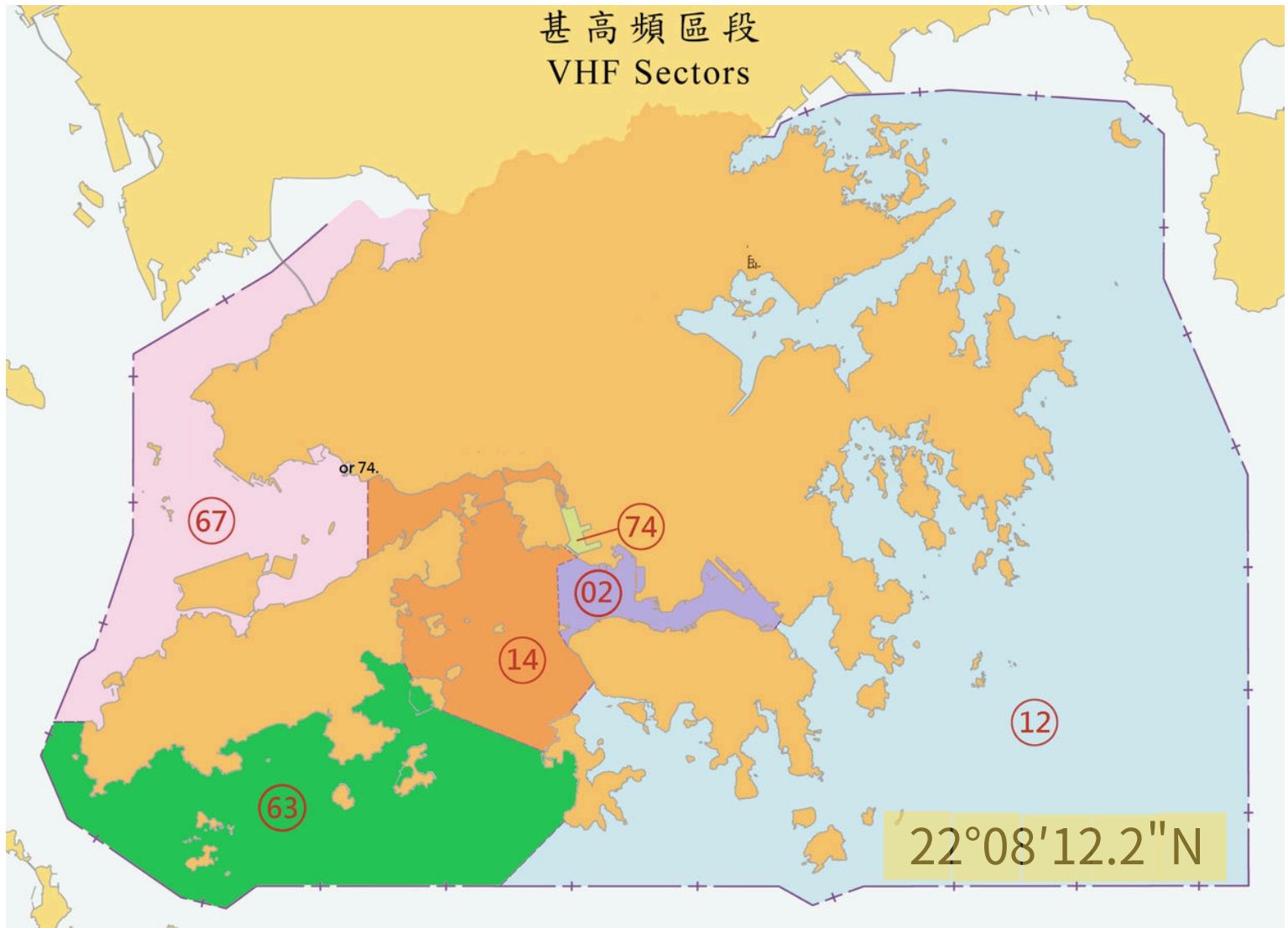


No vessel may enter or transit through Zones 1-4 without the authorization of the Director of Marine. Vessels that exceed the specified height restrictions are prohibited from entering or transiting through Zones 5-8.



Very High Frequency Radiotelephone (VHF) Channel

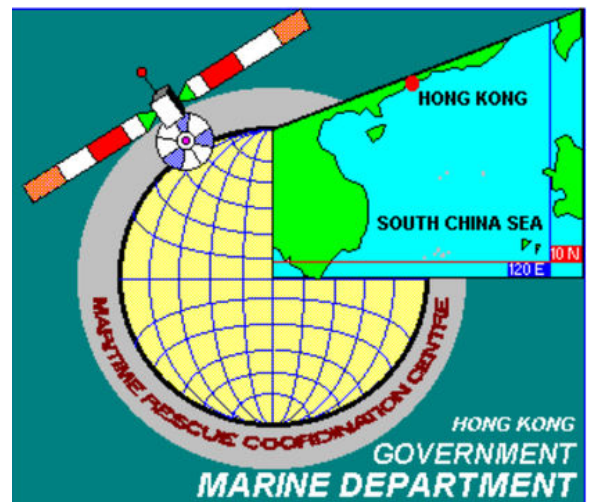
The waters of Hong Kong are segmented into six zones, each designated a distinct VHF channel to enhance communication between the Vessel Traffic Centre and vessels.



VHF Channel 16 Emergency Distress Frequency

Hong Kong Maritime Rescue Coordination Centre (MRCC)

MRCC Function: Responsible for the coordination of all maritime search and rescue in international waters of South China Sea, bounded by Latitude 10° North and Longitude 120° East.





Speed Limits and Navigation Guidelines in Hong Kong Waters and Typhoon shelter

Vessel Length	Top Speed (Knot)		
	A	B	C
Longer than 60m	8	10	15
Below or equals to 60m	10	15	15



Speed Restricted Zones

- Zone A: Waters in Victoria Harbour west of the speed boundary between Hung Hom and North Point, up to east of Green Island.
- Zone B: Waters east of the speed boundary between Hung Hom and North Point, extending to the waters off Tseung Kwan O.
- Zone C: Western Fairway, Kap Shui Mun Fairway, Ma Wan Fairway, and the northern part of the East Lamma Channel.
- Inside Typhoon Shelters : maximum speed shall not exceed **5 knots**
- Marine parks and marine reserves: The maximum speed must not exceed **10 knots**.
- Speed Restricted Areas: In specific speed restricted zones (listed in Marine Department notices), the maximum permitted speed is **5 knots** during the following periods:

- Any Saturday or public holiday, as well as from April 1 to October 31 annually -8:00 AM to 12:00 AM	Deep Water Bay, Repulse Bay, Stanley Bay, Chun Hom Wan, South Bay, To Tei Wan, Tai Tam Bay, Tai Tam Harbour, Luk Chau Wan, Sham Wan, Discovery Bay, Tung Wan
- Any Saturday or public holiday, as well as the period from July 1 to September 15 each year. -8:00 AM to 12:00 AM	Plover Cove, Shatin Hoi, Ko Tong Hau, Three Fathoms Cove, Wu Kai Sha, Sam Mun Tsai, Hebe Haven, Clear Water Bay, Tai She Wan, Tsam Chuk Wan, East Kiu Tsui Chau, West Kau Sai Chau, South Kau Sai Chau, Bluff Island, Sor Sze Mun, Ma Tau Wan, High Island, Yeung Chau
Any day of the year from 8:00 AM to 12:00 midnight	Hebe Haven

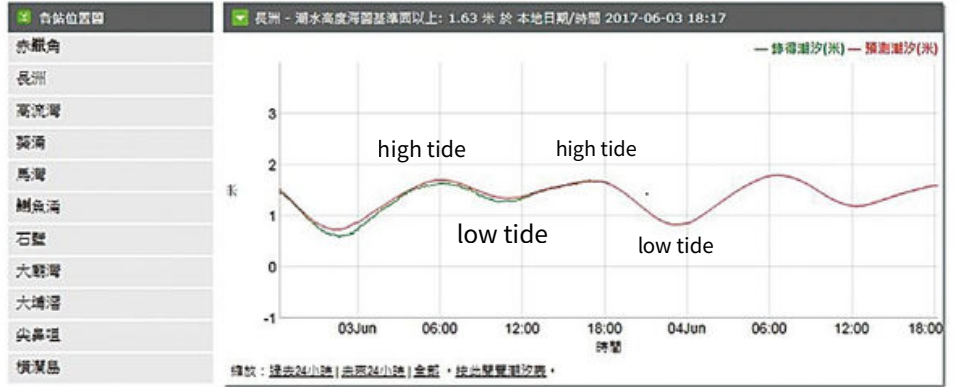
- Important Exam Tips:
- Always sail at a safe speed — you must be able to stop or manoeuvre in time to avoid danger.
- The strictest and most commonly tested limit is 5 knots inside all typhoon shelters and their entrances also all different kind of “Bay”
- Speed limits in Zones A, B, and C depend on vessel length (except Zone C, which is 15 knots for all).





Tidal

實時潮汐



When the tide is elevated, the water moves from east to west.

As the tide ebbs, the water moves from west to east.

Tidal information is available from the Observatory's Tidal Table. The Tidal Table is published annually by the Observatory and details the height and timing of daily tidal fluctuations.

Hong Kong tidal pattern is semi-diurnal pattern consists of two high tides and two low tides occurring within a 24-hour period.

Tidal Direction in Hong Kong During high tide, water flows from the eastern waters of Hong Kong to the west, specifically from Lei Yue Mun to Sai Wan. Conversely, during low tide, water flows from the western waters of Hong Kong to the east, from Sai Wan to Lei Yue Mun.





Harbor navigation

- sailing on the right side in fairways
- Adhere to speed regulations.
- Adhere to harbor facilities, including buoys, restricted zones, and similar elements.
- Entry into prohibited navigation areas is prohibited.
- Maintain a distance of at least 100 meters from embankments and docks.
- Avoid anchoring in designated restricted areas.

Government Piers and Regulations for Use

- Exclusively for passengers and carry-on baggage
- During the waiting period, the vessel must maintain a distance of at least 100 meters from the pier.
- Vessels longer than 35 metres are prohibited from utilizing public piers without the authorization of the Director of Marine.



General Penalties for Infractions

- | | |
|------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------|
| 1. Maximum sanction for contravening applicable public pier regulations | : HK\$2,000 |
| 2. Maximum penalty for failing to have an observer on board while water skiing | : HK\$2,000 |
| 3. Maximum penalty for engines that emit excessive black smoke | : HK\$10,000 |
| 4. Disposing of waste in the ocean | : HK\$10,000 and six months' imprisonment |
| 5. Maximum penalty for unauthorized entry into restricted or prohibited areas | : HK\$10,000 and six months' imprisonment |
| 6. The maximum penalty for unlawful use of the Kap Shui Mun waterway. | : HK\$10,000 and six months' imprisonment |
| 7. Unauthorized entry or passage through the restricted area of Chek Lap Kok Airport in contravention of regulations. | : HK\$10,000 and six months' imprisonment |
| 8. Maximum penalty for failing to possess a valid recreational boat operator's license | : HK\$10,000 and six months' imprisonment |
| 9. Any vessel that collides with and damages the bridge | : HK\$50,000 and six months' imprisonment |
| 10. Maximum penalty for unlawful oil discharge | : HK\$200,000 |

Speeding violations penalties

- | | |
|--------------------------------------------------------------------------------------------------|----------------------------------------------|
| 1. Maximum penalty for exceeding speed limits in or at the entrance of a typhoon shelter. | : HK\$5,000 |
| 2. Maximum penalty for exceeding speed limits in speed-restricted areas | : HK\$10,000 |
| 3. Maximum fine for speeding in Victoria Harbour | : HK\$10,000 and six months' imprisonment |
| 4. Maximum fine for exceeding speed limits in a marine park or marine reserve | : HK\$25,000 and twelve months' imprisonment |





Q: What does the red line in the diagram mean?

A: It is the boundary between the Speed Limit Zone A and Zone B.

Q: What does the red line in the diagram mean?

A: The port boundary.

Q: Which fairway does the black part refer to?

A: The Northern Channel.

Q: Which fairway does the black part refer to?

A: The South Channel.

Q: Which fairway does the black part refer to?

A: Hung Hom Waterway.



Q: What latitude marks the most southerly boundary of Hong Kong waters?

A: 22° 08' 12.2" N.

Q: What is the maximum allowable length of a vessel using a government pier?

A: Except with the permission of the Director of Marine, vessels of a total length exceeding 35 meters shall not berth any government pier

Q: How should a vessel use the government pier lawfully?

A: The government piers can only be used for loading and unloading passengers and luggages. Vessels can not berth the government piers for any other purposes.



Q: If a vessel violates the requirements on using government piers, what penalty can be imposed on the master of the vessel on conviction?

A: Upon conviction, the master is liable to a fine of level 1 (\$2,000).

Q: What is the highest penalty for a 15-meter-long power-driven vessel that speeding in zone A of Victoria Harbour?

A: The master of the vessel is liable to a fine at level 3 (\$10,000) and to imprisonment for 6 months.

Q: It will be an offence if a vessel violates the Merchant Shipping (Local Vessels) (General) Regulation and enters the special area of Kap Shui Mun without reasonable excuse. What is the highest penalty for the master of the vessel on conviction?

A: The master of the vessel is liable to a fine at level 3 (\$10,000) and to imprisonment for 6 months.

Q: It will be an offence if a vessel violates the Merchant Shipping (Local Vessels) (General) Regulation and enters the restricted area of Chek Lap Kok airport without reasonable excuse. What is the highest penalty for the master of the vessel on conviction?

A: The master of the vessel is liable to a fine at level 3 (\$10,000) and to imprisonment for 6 months.

Q: Under the Merchant Shipping (Local Vessels) Ordinance, it is an offence for any person to discharge oil or oil-bearing mixture into the waters of Hong Kong. What is the maximum penalty for the master of the vessel on conviction?

A: The master of the vessel may be fined \$200,000.

Q: Under the Merchant Shipping (Local Vessels) Ordinance, it is an offence for any local vessel to emit dark smoke for 3 minutes or more continuously at any one time in the waters of Hong Kong if it is safe to do so. What, if convicted, is the highest penalty for the owner and master as a first-time offender?

A: First-time offenders may be fined at level 3 (\$10,000).

Q: In which direction does the water flow in Victoria Harbour in flood tide?

A: From east to west.

Q: How many entry-prohibited areas are there in Hong Kong that vessels are not allowed to enter?

A: Except with the permission of the Director of Marine, no vessel shall enter any of the following four areas:

1. 100 metres from the low water mark of Green Island.
2. The Ngong Shuen Chau Barracks area.
3. 100 metres from the low water mark of Waglan Island.
4. Shing Mun River Channel.

Q: What is the speed limit in a restricted zone from 8 AM to midnight on Saturdays or public holidays?

A: 5 knots.

Q: When any local vessel is being used to tow a person for water skiing, the master of the vessel must be accompanied by another person on that vessel. What is the age of that person?

A: Not less than 18 years old.

Q: How many low tides are there in Hong Kong every day in general?

A: 2.



Q: Your vessel experiences machine failure when sailing in the water marked in black of this picture. For the safety of the vessel which VHF channel should you use to inform the Vessel Traffic Centre of your situation?

A: Channel 12.



Q: Your vessel experiences machine failure when sailing in the water marked in black of this picture. For the safety of the vessel, which VHF channel should you use to inform the Vessel Traffic Centre of your situation?

A: Channel 63.



Q: Someone falls into the sea when sailing in the water marked in black of this picture. In addition to carrying out the rescue, which VHF channel should you use to immediately report this matter to the Vessel Traffic Centre?

A: Channel 14.



Q: When you see another vessel speeding in the typhoon shelter, which section of the Marine Department should you report to?

A: Harbour Patrol Section or Vessel Traffic Centre.

Q: Please briefly describe the responsibilities of the Hong Kong Maritime Rescue Coordination Center

A: The Hong Kong Maritime Rescue Coordination Center is responsible for the coordination of all maritime search and rescue in international waters of South China Sea, bounded by Latitude 10° North and Longitude 120° East.