

**GUIDELINE FOR THE TECHNICAL AND SAFETY REQUIREMENT FOR PASSENGER YACHTS OPERATING IN
MALAYSIA WATERS (TRADING LIMIT)**

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CHAPTER I - GENERAL PROVISIONS

1. Application

- i. The Requirements shall apply to all registered yacht under the Langkawi International Yacht Registry Act 2003 (Act 630) as follows;
 - (a) New and existing passenger yachts carry more than 12 passengers
 - (b) Plying within trading limits in Malaysia waters only.
- ii. This provisions of the Requirements should not apply to:
 - (a) New and existing passenger yachts carry less than 12 passengers.
 - (b) New and existing passenger yachts plying outside trading limit.

2. Definition

For the purpose of the Requirements, unless expressly provided otherwise:

"Accommodation spaces" are those spaces used for public spaces, corridors, lavatories, cabins, offices, hospitals, cinemas, games and hobbies rooms, pantries containing no cooking appliances and similar spaces;

"Approved" means approved by the Surveyor-General of Ships;

"COLREG" as defined in Merchant Shipping Ordinance 1952;

"Existing yacht" means a yacht which is not a new yacht;

"Length" (L), measured in meters, is 96% of the total length on a waterline at 85% of the least moulded depth measured from the top of the keel, or the length from the fore-side of the stem to the axis of the rudder stock on that waterline, whichever is greater. In yachts designed with a rake of keel the waterline on which this is measured shall be parallel to the designed waterline;

"Machinery space" is to be taken as extending from the moulded base line to the margin line and between the extreme main transverse watertight bulkheads, bounding the spaces containing the main and auxiliary propulsion machinery, boilers serving the needs of propulsion, and all permanent coal bunkers. In the case of unusual arrangements, the Surveyor General of Ships may define the limits of the machinery spaces;

"Main steering gear" is the machinery, rudder actuators, steering gear power units, if any, and ancillary equipment and the means of applying torque to the rudder stock (e.g. tiller or quadrant) necessary for effecting movement of the rudder for the purpose of steering the yacht under normal service conditions;

"New yacht" means a yacht the keel of which is laid or which is at a similar stage of construction on or after the date of adoption of the Requirements by Surveyor General of Ships. In this definition "similar stage of construction" means the stage of construction of the yacht at which:

- (a) Construction identifiable with a specific yacht begins; and
- (b) Assembly of that yacht has commenced comprising at least 50 tonnes or one percent of the estimated mass of all structural material;

"Ordinance" means Merchant Shipping Ordinance 1952;

"Passenger" is every person other than:

- (a) the master and the members of the crew or other persons employed or engaged in any capacity on board a ship on the business of that yacht; and
- (b) a child under one (1) year of age.

"Public spaces" are those portions of the accommodation which are used for halls, dining rooms, lounges and similar permanently enclosed spaces;

"Trading Limit" is within Port Limit as set out in the order of the Minister in section 5 and 6 of the Ordinance or within state waters or 3 nautical miles from nearest land (whichever is applicable).

"Recognized Organization" as define in MSO 1952, Section 10 (2A);

"Retro-reflective material" is a material which reflects in the opposite direction a beam of light directed on it;

"Stability Code" means the Publication on `Code on Intact Stability for All Type of Ships Covered by IMO Instruments consists of the texts of Resolution A.749 (18).

"Surveyor General of Ships" as defined in the Merchant Shipping Ordinance 1952

"Watertight" means the hull or compartment where retaining the buoyancy of the yacht;

"Weathertight" means that in any sea condition water will not penetrate into the yacht;

"Yacht" as defined in LIYR act 2003.

3. Exemption

The Surveyor-General of Ships within the power conferred to him by the Ordinance may where it considers of an exemption in this requirement.

4. Equivalent

Where these requirement are require that a particular fitting, material, appliance or type thereof, should be fitted or carried in a yacht, or that particular provision should be made, the Surveyor General of Ships may allow any fitting, material, appliances, or type thereof to be fitted or carried, or any other provision to be made in that yacht, if it is satisfied by trials thereof or otherwise that such fitting, material, appliance, apparatus or type thereof is at least as effective as that required by these requirements.

5. Yacht's Plans, Signs, Marking, Instruction Manuals and Language Used

Yacht's name plates, signs, Marking, instructions, notices, plans and documents on board relating to safety and operation of the yacht and its machinery should be drawn up in the English and Bahasa Melayu languages. Self-propelled Yachts by mechanical means should carry adequate information including drawings, plans and instruction manuals necessary for their safe operation and safety of life at sea.

(i) Fire control plans and safety plan

(a) Description of plan

In all passenger yachts, the plans should be permanently exhibited for the guidance of the officers, using graphical symbols that are in accordance with IMO sign and symbol which show clearly for each deck the control stations, the various fire sections enclosed by steel or 'A' Class divisions, together with particulars of:

- i. the fire-extinguishing and the lifesaving appliances;
- ii. the means of access to different compartments, decks, etc.;
- iii. the ventilating system, including particulars of the fan control positions, the position of dampers and identification numbers of the ventilating fans serving each section.

(b) Evacuation plan

- i. For any passenger yachts with enclosed accommodation carry more than 36 passengers and shall have approved evacuation plan on board.

(c) General Arrangement Plan

- i. All passenger yacht shall have the General Arrangement Plan including seating arrangement, luggage compartment, accommodation and as necessary by General Surveyor of Ships.

(d) Emergency Contact List

- i. All passenger yacht shall have the Emergency Contact List as in **APPENDIX II** on board.

(e) Marking

- i. All lifesaving appliances on board passenger yachts shall be marked with yacht name and port of registry as deem satisfactory by Surveyor-General of Ships.

(f) Signage

- i. All passenger yachts shall be placed with signage in vicinity of the primary and secondary means of exits, lifesaving and fire-fighting equipment.

6. Carrying Capacity

i. Number of persons to be carried on passenger yacht.

- (a) No owner, master or person-in-charge of a passenger yachts shall cause or permit the passenger yachts to carry a greater number of persons than its carrying capacity as specified in Passenger Certificate.

CHAPTER II- GENERAL ASPECTS OF INSPECTIONS AND SURVEYS

The inspection, survey and marking of yachts, so far as regards the enforcement of the requirements and the granting of exemptions therefrom, should be carried out by officers appointed under section 10 of the Ordinance.

7. Surveys

The surveys referred to the Rules under the Ordinance should be carried out as follows:

- (i) The initial survey before the yacht is put into service should be such as to ensure that arrangements, equipment and systems specified below comply fully with the Requirements and the workmanship of all such parts and equipment is in all respects satisfactory:
 - (a) the arrangements, materials and scantlings of the structure;
 - (b) main and auxiliary machinery including steering gear and associated control systems;
 - (c) fire safety systems and appliances, life-saving appliances and arrangements, navigational equipment, nautical publications;
 - (d) radio installation including those used in life-saving appliances;
 - (e) arrangements for the control of discharge of oil, sewage and garbage on board,
 - (f) Arrangement for the retention of oil, sewage and garbage on board;
 - (g) provision of the lights, shapes, means of making sound signals and distress signals as required by the provisions of Merchant Shipping (Collision Regulation) Order 1984;
 - (h) the arrangements, materials and scantlings fully comply with the requirements under the Ordinance relating to the conditions for assignment of load lines and freeboard;
- (ii) The renewal survey should include an inspection of the equipment referred to in **paragraph 7 (i)** including outside of the yacht's bottom inspection to ensure that it complies with the relevant requirement.
- (iii) An additional survey either general or partial, according to the circumstances, should be made after a repair resulting from investigations whenever an accident occurs to a yacht or a defect is discovered, either of which affects the safety of the yacht or whenever any important repair or renewals are made. The survey should be such as to ensure that the repairs and renewals are effectively made;

8. Issue of Certificate

A Passenger Certificate shall be issued under provision Section 208 in the Ordinance after an initial or renewal survey, specified in **paragraph 7 (i) and 7 (ii)** of this requirement, to a yacht which complies to these requirements. In any case, the Surveyor General of Ships should ensure the completeness of the inspections prior to the issue of any certificates.

9. Duration and Validity of Certificate

- (i) A Passenger Certificate shall be issued for a period not exceeding twelve (12) months from the date of initial or renewal survey as specified in **paragraph 7 (i) and 7 (ii)** of this requirement.

- (ii) A certificate issued should cease to be valid in any of the following cases:
 - a. If the relevant surveys and inspections are not completed within the periods specified;
 - b. Upon transfer of the yacht to the another Flag State.

10. Form of Certificate

The Passenger certificate should be drawn up in a form corresponding to the format in the English Language as attached to this requirement in **APPENDIX I**

11. Availability of Certificate

The certificates issued under this Requirement should be readily available on board for examination at all times.

CHAPTER III - CONSTRUCTION AND EQUIPMENT

12. General Provision

All machinery and electrical installations, mechanical and electrical equipment and appliances, other pressure vessels, associated piping systems, fittings and electrical cables and wiring should be of a design and construction adequate for the service for which they are intended and should be so installed and protected as to reduce to a minimum any danger to persons on board, due regard being paid to moving parts, hot surfaces and other hazards. The design should have regard to materials used in construction, and to purposes for which the equipment is intended, the working conditions and the environmental conditions to which it will be subjected.

13. Construction

- a. The strength and construction of hull, superstructures, deckhouses, machinery casing companion ways and any other structure and equipment should be sufficient to withstand all foreseeable conditions of the intended service.

- b. In addition, a passenger yacht carry more than 36 passengers shall be built and maintained in conformity with the applicable rules of a classification society or any other body recognized by the Surveyor-General of Ships or other authority considered as adequate in this respect, including:
 - (i) Requirements of subdivision watertight compartment,

- (ii) Watertight doors for openings underdeck.

14. Anchors, Chain Cables and Windlass

The passenger yachts shall be provided with at least one anchor and chain cable or its equivalent as are sufficient in weight, length and strength having regard to the size of the passenger yachts. A windlass shall be provided for hauling in the anchor if the weight of anchor exceeds 15 kilogram's. Surveyor-General of Ships may exempt from complying with **paragraph 14** if not practicable.

CHAPTER IV - STABILITY REQUIREMENTS

15. Inclining Tests and Stability Information

- (i) Every passenger yachts should undergo an inclining test upon its completion and the actual displacement and position of the centre of gravity should be determined for the lightship condition.
- (ii) Where alterations are made to a yacht affecting its light condition and the position of the centre of gravity, the yacht should, if the Surveyor General of Ships considers this necessary, be re-inclined and the stability information amended.
- (iii) Stability information approved by the Surveyor General of Ships or any person authorised by him should be supplied to yachts propelled by mechanical means to enable the master to assess with ease and certainty the stability of the yacht under various operating conditions. Such information should include specific instructions to the master warning him of those operating conditions which could adversely affect either stability or the trim of the yacht.
- (iv) The approved stability information should be kept on board, readily accessible at all times and inspected at the periodical surveys of the yacht to ensure that it has been approved and the condition of the yacht since its approval has not changed.
- (v) Where alterations are made to a yacht affecting its stability, revised stability calculations should be prepared and submitted to the Surveyor General of Ships for approval. Such revised information should be supplied to the master and the superseded information removed from the yacht.
- (vi) The Surveyor General of Ships may exempt from complying with **paragraph 15 (i, ii, iii, iv and v)** for passenger yacht carry not more than 36 passengers subject to undergo an inclining test upon completion with total displacement and crowd at one side to determine total person(s). Maximum heel angle shall not exceed 8° at any one side with a minimum weight of 75 kg shall be assumed for each passenger. The total person shall also refer to **paragraph 30**.

16. Intact stability

The following IMO Resolutions should be applied to;-

- a. The Intact Stability Code Resolution A.749 (18) shall be applied for passenger yachts greater than 24 metres in length, or
- b. Where the passenger yacht cannot meet the requirement of **paragraph 16 (a)**, its curves of statical stability shall meet the following criteria:
- (i) the area under the righting lever curve (GZ curve) shall not be less than 0.07 metre-radians up to 15° angle of heel, when maximum GZ occurs at 15°, and 0.055 metre-radians up to 30° angle of heel, when maximum GZ occurs at 30° or above. Where the maximum GZ occurs at angles of between 15° and 30°, the corresponding area under the GZ curve, A_{req} shall be taken as follows:

$$A_{req} = 0.055 + 0.001(30^\circ - \Theta_{max}) \text{ metre-radians}$$

where Θ_{max} is the angle of heel in degrees where the GZ curve reaches its maximum;
 - (ii) the area under the GZ curve between the angles of heels of 30° and 40° or between 30° and the angle of down flooding if this is less than 40°, shall not be less than 0.03 metre-radians;
 - (iii) the righting lever (GZ) shall be at least 0.20 metres at an angle of heel equal to or greater than 30°; the maximum GZ shall occur at an angle of heel not less than 15°;
 - (iv) after correction for the free surface effects, the initial metacentric height (GM) shall not be less than 0.15 metres.
- c. The Surveyor-General of Ships may exempt from complying with **paragraph 16.a or 16.b** for passenger yacht carry not more than 36 passengers.

17. Bilge Pumping Arrangement

Minimum one (1) or more bilge pump connected to the main bilge system shall be provided for each hull.

CHAPTER V - MACHINERY INSTALLATION

18. General Requirements

- (i) Main propulsion shall be fitted with an inboard diesel engine for passenger yachts carry more than 36 passengers.
- (ii) Installation Engine Petrol may have accepted if they have been assessed by Recognised Organization (RO) for their suitability and been approved as equivalent for the passenger more than 36 passengers.
- (iii) All parts of machinery and other systems and their associated fittings which are under internal pressure should be keep in good operation condition at all times.

- (iv) Means should be provided to ensure that the machinery could be brought into operation from the deadship condition without external aid.
- (v) Adequate provisions should be made to facilitate cleaning, inspection and maintenance of machinery installations.
- (vi) Sufficient power for going astern should be provided to secure proper control of the yacht in all normal circumstances.
- (vii) Every passenger yacht should be provided with a means of emergency steering gear system or equivalent to steer.
- (viii) Insulation installation in contact with any flammable liquids or vapour its surface shall be suitable to such flammable liquid or vapour

19. Machinery Control

Main and auxiliary machinery essential for the propulsion and safety of the yacht should be provided with effective means for its operation and control.

20. Ventilation Systems in Machinery Spaces

- (i) Machinery spaces should be adequately ventilated so as to ensure that when machinery are operating at full power in all weather conditions including heavy weather, an adequate supply of air is maintained to the spaces for the safety and comfort of personnel and the operation of the machinery. Any other machinery space should be adequately ventilated appropriate for the purpose of that machinery space.
- (ii) The ventilation of machinery spaces should also be sufficient under all normal conditions to prevent accumulation of oil vapour.

CHAPTER VI - ELECTRICAL INSTALLATION

21. General Electrical Requirements

- (i) Electrical installations shall be of such design and construction that the passenger yachts and all persons on board are protected against electrical hazards.
- (ii) Electrical installations should be such that:
 - (a) All electrical services necessary for maintaining the yacht in normal operational and habitable conditions will be ensured without recourse to the emergency source of electrical power;

- (b) Electrical services essential for safety will be ensured under various emergency conditions; and
- (c) The safety of crew and yacht from electrical hazards will be ensured.

CHAPTER VII - FIRE PROTECTION AND FIRE EXTINCTION

22. Fire Pump

Minimum one (1) main or portable fire pump shall be provided.

23. Fire Hose

Fire-hoses should be of approved non-perishable material. The hoses should be sufficient in length to project a jet or spray of water to any of the spaces in which they may be required to be used. Each hose shall be provided with a nozzle and the necessary couplings.

24. Means of Escape

The following requirement is to provide means of escape so that persons on-board can safely and swiftly escape embarkation deck. For this purpose, the following functional requirements should be met:

- (a) safe escape routes should be provided;
- (b) escape routes should be maintained in a safe condition, clear of obstacles; and
- (c) additional aids for escape should be provided as necessary to ensure accessibility, clear marking, and adequate design for emergency situations.

25. Portable Fire Extinguishers

- (i) Portable fire extinguishers
 - (a) Accommodation and public spaces minimum 2 units for each deck
 - (b) Machinery spaces (one CO₂ portable extinguisher per every 375 kW of internal combustion engine power) minimum 2 units and not more than 4 units.
 - (c) All fire-extinguisher shall be approved types.
- (ii) Capacity
 - (a) The following capacities may be taken as equivalents with 5 kg dry powder.

26. Exemption

Surveyor General of Ships may exempt from complying with **paragraph 22, 23 and 24** if not practicable.

CHAPTER VIII - LIFE SAVING APPLIANCES

27. Life Saving Appliances

The minimum requirements for the carriage of life saving equipment are specified below :

- (i) A minimum of 4 units lifebuoys for passenger yachts carry less than 36 passengers (2 units with a self-igniting light and 2 units with buoyant lifeline)
- (ii) A minimum of 6 units lifebuoys for passenger yachts carry more than 36 passengers (4 units with a self-igniting light and 2 unit with buoyant lifeline)
- (iii) A lifejacket for each of the persons on board. An additional, 5 % for adult and 10 % for child shall provide on board.
- (iv) A minimum six (6) hand flares shall be provided in a suitable watertight container.

Paragraph 27 (iii) is applicable to passenger yacht carry less than 12 passengers.

CHAPTER IX - RADIO INSTALLATION

28. Radio Installation

All passenger yacht shall be provided with a VHF radio capable of transmitting and receiving in the International Maritime Mobile VHF Radio-communication Service in the 156 – 174 MHz Band or other means of effective communication.

CHAPTER X - NAVIGATIONAL EQUIPMENT

29. Navigation Equipment

All passenger yachts shall be provided with the following equipment;

- (i) An automatic Identification System,
- (ii) A magnetic compass,
- (iii) Navigation light comply with COLREG exhibit such lights and shapes required for its type and size as prescribed by COLREGS, and such signals as required by COLREGS.

The Surveyor-General of Ships may exempt from complying with **paragraph 29 (i) and (ii)** for passenger yacht carry not more than 36 passengers.

CHAPTER XI - ACCOMMODATION

30. Accommodation

All passenger yachts carry more than 36 passengers shall be provided with accommodation of an adequate standard to ensure the comfort, recreation, health and safety of all persons on board.

- i. The passenger yacht shall be fully decked with an enclosed deckhouse.
- ii. Total person on-board will be as certified by the builder. If this is unavailable, the capacity will be assessed based on ;

[12 + (Length x Length x Breadth x 0.0031)] and rounded down.

- iii. All passenger yacht shall be consisting with public toilet enough for total passenger(s).
- iv. Bulwarks, guard or hand rails or equivalent protection or fixing shall be installed near the periphery of weather decks accessible to any person on board.
- v. An enclosed space shall be adequately ventilated and lit by artificial light or nature light.
- vi. Public address system shall be provided in case required by Surveyor General of Ships.
- vii. First aid kit.

31. Seating Arrangement

- i. The permanent seats must be provided with comfort and suitable for all passengers and so arranged in such a way to allow easy access to any part of the yacht. The arrangement must also not be obstructing any access to or the use of any essential or emergency equipment or required means of escape.

CHAPTER XII - MANNING

32. Manning

Every passenger yacht when under way shall be adequately manned to the satisfaction of the Surveyor-General of Ships as mentioned in **APPENDIX III**

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APPENDIX 1 – Certificate

PASSENGER CERTIFICATE

Issued under the Provisions of the
 MERCHANT SHIPPING ORDINANCE, 1952
 Under the authority of the Government of MALAYSIA
 By Marine Department

Name of Ship	Distinctive Number or Letters	Port of Registry	Gross Tonnage	IMO Number

Plying Within:

Owner or Agent:

I. The provisions of the Merchant Shipping Ordinance relating to the survey of passenger ships have been complied with and that the above-mentioned ship is fit to ply within the limit stated above with:-

- Passengers and
- Crew

II. That the survey referred to above showed that the ship complied with the requirements of the said Ordinance as regards to:

- (1) the hull and machinery;
- (2) equipments, light and sound signals, etc;
- (3) the life-saving appliances, which are provided as follows:-

- | | |
|-----------------------------------|--------------------------------|
| Lifejacket(s) for adults and | Lifejackets for children |
| Lifebuoy (s) | |
| - Buoyant Apparatus for | - persons |
| Inflatable Liferaft(s) for | persons |

Remarks: - Nil -

This Passenger Certificate shall remain in force unless previously cancelled until

Issued at **PORT KELANG** on the

Seal

(.....)
 Surveyor - General of Ships
 Malaysia

APPENDIX II - Form Emergency Contact List

EMERGENCY CONTACT LIST

999

MALAYSIA EMERGENCY RESPONSE SERVICES

INFORMATION TO BE PROVIDED:

1. TYPE OF EMERGENCY
2. LOCATION OF INCIDENT
3. NAME OF REPORTER
4. CONTACT NUMBER

SECONDARY EMERGENCY CONTACT NUMBER:

RADIO VHF= CHANNEL 16

Other Contact List;

NAME OF AGENCY	PRIMARY CONTACT	SECONDARY CONTACT
1. APMM		
2. BOMBA		
3. PDRM		
4. JABATAN LAUT		
5. OWNER/COMPANY REPRESENTATIVE/AGENT		
6. APM		
7. HOSPITAL		

APPENDIX III

GUIDANCE ON APPROPRIATE MANNING LEVELS CERTIFICATED DECK OFFICERS ON YACHTS

Trading Area	Size of Yacht (GT)	Numbers and grades of Officer to be carried			
		Master	Chief Mate	Watch keeping Officer	Number of Ratings
Trading Limit & Port Limit (Restriction)	<150GT	Mate <500GT Domestic (Restricted)	Nil	Nil	1 deck rating
	>150GT	Master <500GT Domestic (Restricted)	Mate <500GT Domestic (Restricted)	Nil	2 deck rating*

GUIDANCE ON APPROPRIATE MANNING LEVELS CERTIFICATED ENGINE OFFICERS ON YACHTS

Trading Area	Registered Power (kW)	Numbers and grades of officers to be carried			
		Chief Engineer	Watch keeping Engineer	Watch keeping Engineer	Number of Ratings
Trading Limit & Port Limit (Restriction)	<750kW	Nil	Nil	Nil	1 engine rating
	>750kW	Engine Officer <750kW Domestic & Near Coastal	Nil	Nil	2 engine rating*

(*) yachts with four (4) passenger decks; shall carry one more deck rating



MERCHANT SHIPPING ORDINANCE 1952
THE MERCHANT SHIPPING (MANNING, HOURS OF WORKS AND WATCHKEEPING) RULES 1999 (Subrule 6(1))

SAFE MANNING DOCUMENT
ISSUED BY THE GOVERNMENT OF MALAYSIA
In accordance with the provision of regulation V/14 of the
INTERNATIONAL CONVENTION FOR THE SAFETY OF LIFE AT SEA, 1974, as amended

A. PARTICULAR OF SHIP

NAME OF SHIP	OPERATING COMPANY	OFFICIAL NO.	IMO NO.

PORT OF REGISTRY	GROSS TONNAGE	POWER (kW)	TYPE OF SHIP	UMS	TRADE AREA
					Port Limit (...) Treading Limit (...)

B. MANNING PARTICULARS

DECK MANNING			
Rank	Type Of Certificate	STCW Reg.	Numbers
Master Chief Officer Watchkeeping Officer Able Seafarer Watchkeeping Rating Deck Rating GP Deck			

Notes : Radio Operator to be at least 2 GOC Holders or 1 Radio Electronic Officer

ENGINE MANNING			
Rank	Type Of Certificate	STCW Reg.	Numbers
Chief Engineer Second Engineer Watchkeeping Engineer Engineer Officer Electrical Officer Able Seafarer Watchkeeping Rating Electrical Rating Engine Rating GP Engine			

OTHERS MANNING			
Rank	Type Of Certificate	STCW Reg.	Numbers
Cook Medical Officer			

C. DECLARATIONS

Having regards to the principles and guidelines set out in the 'Merchant Shipping (Manning, Hours of Work and Watchkeeping) Rules 1999' and IMO Resolution A.1047 (27), the abovementioned ship or vessel is considered to be safely manned if she carries on board not less than the number and class of personnel shown above subject to the following conditions:

NIL

This Certificate is valid until
Date of Issue
Place of Issue

.....
(Director of Marine)

