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STATUTORY INSTRUMENTS

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**1992 No. 2359**

**MERCHANT SHIPPING**

**SAFETY**

**The Merchant Shipping (Life-Saving Appliances for Passenger Ships of Classes III to VI (A)) Regulations 1992**

*Made - - - - 1st October 1992*

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**THE MERCHANT SHIPPING (LIFE-SAVING APPLIANCES FOR PASSENGER SHIPS OF CLASSES III TO VI (A)) REGULATIONS 1992**

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12. Operating instructions for launching lifeboats, liferafts and open reversible liferafts
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## SCHEDULE 1 — LIFEBOATS

### PART I — GENERAL (INCLUDING EQUIPMENT)

1. Definitions
  - 1.1 In this Schedule the following definition applies:
    2. General
      - 2.1 All lifeboats prescribed in this Part shall:
        3. Construction
          - 3.1 All lifeboats shall be properly constructed and shall be of...
          - 3.2 All lifeboats shall be of sufficient strength to:
            - 3.3 Hulls and rigid covers shall be fire-retardent or non-combustible.
            - 3.4 Seating shall be provided on thwarts, benches or fixed chairs...
            - 3.5 Each lifeboat shall be of sufficient strength to withstand a...
            - 3.6 Each lifeboat shall be of sufficient strength to withstand, when...
            - 3.7 The vertical distance between the floor surface and the interior...
            - 3.8 No lifeboat shall be deemed fit to accommodate more than...
            - 3.9 The number of persons which a lifeboat shall be permitted...
            - 3.10 Each seating position shall be clearly indicated in the lifeboat...
            - 3.11 Every lifeboat shall be so arranged that it can be...
            - 3.12 Lifeboats shall have a boarding ladder that can be used...
            - 3.13 The lifeboat shall be so arranged that helpless people can...
            - 3.14 All surfaces on which persons might walk shall have a...
            - 3.15 All lifeboats shall have inherent buoyancy or shall be fitted...
            - 3.16 Every lifeboat, when loaded with 50% of the number of...
          4. Lifeboat Propulsion
            - 4.1 Every lifeboat shall be powered by a compression ignition engine....
            - 4.2 Unless the propeller is arranged so as to avoid its...
            - 4.3 The exhaust pipe shall be so arranged as to prevent...
            - 4.4 All lifeboats shall be designed with due regard to the...
            - 4.5 The speed of a lifeboat when proceeding ahead in calm...
            - 4.6 The lifeboat engine, transmission and engine accessories shall be enclosed...
            - 4.7 The lifeboat engine and accessories shall be designed to limit...

- 4.8 Means shall be provided for recharging engine-starting batteries. Means shall...
  - 4.9 Water-resistant instructions for starting and operating the engine shall be...
  - 5. Lifeboat Fittings
    - 5.1 All lifeboats shall be provided with at least one drain...
    - 5.2 All lifeboats shall be provided with a rudder and tiller...
    - 5.3 Except in the vicinity of the rudder and propeller, a...
    - 5.4 Lifeboats which are not self-righting when capsized shall have suitable...
    - 5.5 All lifeboats shall be fitted with sufficient watertight lockers or...
    - 5.6 Every lifeboat to be launched by a fall or falls...
    - 5.7 Every lifeboat shall be fitted with a release device to...
    - 5.8 Lifeboats intended for launching down the side of a ship...
    - 5.9 A manually controlled lamp complying with the requirements of Part...
    - 5.10 A lamp of source of light complying with the requirements...
    - 5.11 Unless expressly provided otherwise, every lifeboat shall be provided with...
    - 5.12 Every lifeboat shall be so arranged that an adequate view...
  - 6. Lifeboat Markings
    - 6.1 The dimensions of the lifeboat, the number of persons which...
    - 6.2 The name and port of registry of the ship to...
    - 6.3 Means of identifying the ship to which the lifeboat belongs...
  - 7. Lifeboat Equipment
    - 7.1 All items of lifeboat equipment, whether required by this paragraph...
  - 8. Instructions and Information
    - 8.1 Instructions and information required for inclusion in the training manual...
- PART II — PARTIALLY ENCLOSED LIFEBOATS**
- 1. All partially enclosed lifeboats shall comply with the requirements of...
  - 2. Every partially enclosed lifeboat shall be provided with effective means...
  - 3. Enclosure
    - 3.1 Permanently attached rigid covers shall be provided extending over not...
    - 3.2 The rigid covers shall form two shelters. The interior height...
    - 3.3 The rigid covers shall be so arranged that they include...
    - 3.4 The rigid covers shall have railings to provide a secure...
    - 3.5 Open parts of the lifeboat shall be fitted with a...
    - 3.6 The enclosure formed by the rigid covers and canopy shall...
- PART III — LIFEBOAT DISENGAGING GEARS**
- 1. Except in the case of a single point suspension the...
  - 2. The means of effecting release shall be placed near the...
  - 3. The gear shall have two release capabilities:
    - 3.1 a normal release capability which will release the lifeboat only...
    - 3.2 an on-load release capability which will release the lifeboat with...
  - 4. The means of connection between the hook(s), safety device and...
    - 4.1 be arranged and led so as to ensure the efficient...
    - 4.2 wherever necessary be properly cased in for the safety or...
    - 4.3 where cased in, means shall be provided for lubricating this...
  - 5. The release control(s) are to be clearly marked in colour...
  - 6. Such parts of the gear as would otherwise be likely...
  - 7. The mechanism shall be designed with a factor of safety...
- PART IV — MANUAL PUMPS**
- 1. Every lifeboat manual pump shall comply with the following requirements:
    - 1.1 the capacity when operated at not more than 60 double...
    - 1.2 in its normal dry state (excluding internal grease or other...

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- 1.3 all parts of the pump shall be of material unaffected...
  - 1.4 the interior of the pump, including valves, shall be readily...
  - 1.5 the pump branches shall be suitable for use with rubber...
- PART V — LIFEBOAT LIGHTS
- 1. General
    - 1.1 Internal and External Lights (1.1.1) The lights shall be provided...
  - 2. Construction
  - 3. Performance
    - 3.1 Internal and External Lights (3.1.1) The lights shall have an...
    - 3.2 Internal Light (3.2.1) The light shall be of sufficient luminous...
    - 3.3 External Light (3.3.1) The light shall be visible on a...
  - 4. Markings
    - 4.1 The power source if independent of the lifeboat's battery system...
    - 4.2 If the power source is a chemical pressurised cell it...

## SCHEDULE 2 — RESCUE BOATS

### PART I — RIGID RESCUE BOATS

- 1. General
  - 1.1 A rigid rescue boat may be accepted as a lifeboat...
  - 1.2 All rigid rescue boats prescribed in this Part shall:
    - 2. Construction
      - 2.1 All boats shall be properly constructed and shall be of...
      - 2.2 All boats shall be of sufficient strength to:
      - 2.3 Seating shall be provided on thwarts, benches or fixed chairs...
      - 2.4 Each boat shall be of sufficient strength to withstand, when...
      - 2.5 The number of persons which a boat shall be permitted...
      - 2.6 Each seating position shall be clearly indicated in the boat...
      - 2.7 All boats shall have a boarding ladder that can be...
      - 2.8 The boat shall be so arranged that helpless people can...
      - 2.9 All surfaces on which persons might walk shall have a...
    - 2.10 All boats shall have inherent buoyancy or shall be fitted...
    - 2.11 Every boat, when loaded with 50% of the number of...
    - 2.12 All boats shall: (2.12.1) be not less than 3.8 metres...
    - 2.13 Unless the boat has adequate sheer, it shall be provided...
    - 2.14 All boats shall be capable of manoeuvring at speeds of...
    - 2.15 All boats shall have sufficient mobility and manoeuvrability in a...
    - 2.16 The boat shall be fitted with an inboard or outboard...
    - 2.17 Arrangements for towing shall be permanently fitted in rescue boats...
    - 2.18 All boats shall be fitted with weathertight stowage for small...
    - 2.19 Hulls and rigid covers if fitted shall be fire-retardant or...
    - 2.20 Each boat shall be of sufficient strength to withstand a...
    - 2.21 All boats shall be fitted with a protective stowage cover...
  - 3. Rigid Rescue Boat Propulsion
    - 3.1 Inboard engine (3.1.1) Where a boat is powered by an...
    - 3.2 Outboard engine (3.2.1) A petrol-driven outboard engine with an approved...
    - 3.3 Unless the propeller is so arranged so as to avoid...
    - 3.4 The exhaust pipe shall be so arranged as to prevent...
    - 3.5 All boats shall be designed with due regard to the...
    - 3.6 The boat engine, transmission and engine accessories shall be enclosed...
    - 3.7 The boat engine and accessories shall be designed to limit...
    - 3.8 Means shall be provided for recharging all engine-starting, searchlight and,...

- 3.9 Water-resistant instructions for starting and operating the engine shall be...
  - 4. Boat Fittings
    - 4.1 All boats shall be provided with at least one drain...
    - 4.2 All boats shall be provided with a rudder and tiller...
    - 4.3 Except in the vicinity of the rudder; propeller or outboard...
    - 4.4 Boats which are not self-righting when capsized shall have suitable...
    - 4.5 Every boat to be launched by a fall or falls...
    - 4.6 Every boat shall be fitted with a release device to...
    - 4.7 Boats intended for launching down the side of the ship...
    - 4.8 Unless expressly provided otherwise, every boat shall be provided with...
  - 5. Markings
    - 5.1 The dimensions of the boat, the number of persons which...
    - 5.2 The name and port of registry of the ship to...
    - 5.3 Means of identifying the ship to which the boat belongs...
  - 6. Boat Equipment
    - 6.1 All items of rescue boat equipment, with the exception of...
    - 6.2 The equipment of every boat shall consist of:
      - 6. Instructions and Information
        - 7.1 Instructions and information required for inclusion in the training manual...
      - 8. Access into boats
    - 8.1 Every rigid rescue boat shall be so arranged that it...
- PART II — RIGID INFLATED RESCUE BOATS
- 1. General
    - 1.1 A rigid inflated rescue boat is a composite craft combining...
    - 1.2 All rigid inflated rescue boats shall comply with all the...
  - 2. Construction
    - 2.1 The buoyancy of the boat shall be a combination of...
    - 2.2 The inflated buoyancy tube shall be a single tube sub-divided...
    - 2.3 All boats shall have adequate inherent buoyancy or inherently buoyant...
    - 2.4 Additional inherent buoyancy equal to 140 Newtons of buoyancy force...
    - 2.5 Inherently buoyant material shall not be adversely affected by seawater,...
    - 2.6 The inflated buoyancy tubes shall comply with the requirements of...
    - 2.7 The inflated buoyancy tubes shall be maintained at all times...
  - 3. Markings
    - 3.1 If any of the markings required by paragraph 5 of...
  - 4. Equipment
    - 4.1 an efficient manually operated bellows or pump; and
    - 4.2 a repair kit in a suitable container for repairing punctures...
- PART III — INFLATED RESCUE BOATS
- 1. General
    - 1.1 An inflated rescue boat is a craft combining a flexible...
    - 1.2 All inflated rescue boats prescribed in this Part shall:
      - 2. Construction
        - 2.1 All boats shall be properly constructed and shall be of...
        - 2.2 All boats shall be of sufficient strength to:
        - 2.3 Seating shall be provided on thwarts, benches or fixed chairs...
        - 2.4 Each boat shall be of sufficient strength to withstand, when...
        - 2.5 The number of persons which a boat shall be permitted...
        - 2.6 Each seating position shall be clearly indicated in the boat....
        - 2.7 All boats shall have a boarding ladder that can be...
        - 2.8 The boat shall be so arranged that helpless people can...
        - 2.9 All surfaces on which persons might walk shall have a...
      - 2.10 All boats, when loaded with 50% of the number of...

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- 2.11 All boats shall: (2.11.1) be not less than 3.8 metres...
  - 2.12 Unless the boat has adequate sheer, it shall be provided...
  - 2.13 Boats shall be capable of manoeuvring at speeds of at...
  - 2.14 Boats shall have sufficient mobility and manoeuvrability in a seaway...
  - 2.15 The boat shall be fitted with an inboard or outboard...
  - 2.16 Arrangements for towing shall be permanently fitted in boats and...
  - 2.17 All boats shall be fitted with weathertight stowage for small...
  - 2.18 An inflated rescue boat shall be constructed in such a...
  - 2.19 Inflated rescue boats shall be so constructed as to be...
  - 2.20 The buoyancy of an inflated rescue boat shall be provided...
  - 2.21 The buoyancy tubes forming the boundary of the inflated rescue...
  - 2.22 Each buoyancy compartment shall be fitted with a non-return valve...
  - 2.23 When inverted in the water a boat shall be capable...
  - 2.24 Rubbing strips shall be provided underneath the bottom and on...
  - 2.25 Where a transom is fitted it shall not be inset...
  - 2.26 Suitable patches shall be provided for securing painters forward and...
  - 2.27 The inflated rescue boat shall be maintained at all times...
  - 2.28 All boats shall be fitted with a protective stowage cover...
  - 3. Inflated rescue boat propulsion
    - 3.1 Inboard engine (3.1.1) Where a boat is powered by an...
    - 3.2 Outboard engine (3.2.1) Petrol-driven outboard engines with an approved fuel...
    - 3.3 Unless the propeller is so arranged so as to avoid...
    - 3.4 The exhaust pipe shall be so arranged as to prevent...
    - 3.5 All boats shall be designed with due regard to the...
    - 3.6 The boat engine, transmission and engine accessories shall be enclosed...
    - 3.7 The boat engine and accessories shall be designed to limit...
    - 3.8 Means shall be provided for recharging all engine-starting, searchlight and,...
    - 3.9 Water-resistant instructions for starting and operating the engine shall be...
  - 4. Boat Fittings
    - 4.1 All boats shall be provided with at least one drain...
    - 4.2 All boats shall be provided with a rudder and tiller...
    - 4.3 Except in the vicinity of the rudder and propeller, a...
    - 4.4 Boats which are not self-righting when capsized shall have suitable...
    - 4.5 Every boat to be launched by a fall or falls...
    - 4.6 Every boat shall be fitted with a release device to...
    - 4.7 Boats intended for launching down the side of a ship...
    - 4.8 Unless expressly provided otherwise, every boat shall be provided with...
  - 5. Markings
    - 5.1 The dimensions of the boat, the number of persons which...
    - 5.2 The name and port of registry of the ship to...
    - 5.3 Means of identifying the ship to which the boat belongs...
    - 5.4 All materials used to mark an inflated rescue boat shall...
  - 6. Boat Equipment
    - 6.1 All items of boat equipment, with the exception of the...
    - 6.2 The equipment of every boat shall consist of:
  - 7. Instructions and Information
    - 7.1 Instructions and information required for inclusion in the training manual...
  - 8. Access into boats
    - 8.1 Every inflated rescue boat shall be so arranged that it...
- PART IV — RESCUE BOAT DISENGAGING GEARS**
- 1. Except in the case of single point suspension the rescue...

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2. The means of effecting release shall be placed near the...
3. The gear shall have two release capabilities:
  - 3.1 a normal release capability which will release the rescue boat...
  - 3.2 an on-load release capability which will release the rescue boat...
4. The means of connection between the hook(s), safety device and...
  - 4.1 be arranged and led so as to ensure the efficient...
  - 4.2 wherever necessary be properly cased in for the safety or...
  - 4.3 where cased in, means shall be provided for lubricating this...
5. The release control(s) are to be clearly marked in a...
6. Such parts of the gear as would otherwise be likely...
7. The mechanism shall be designed with a factor of safety...

### SCHEDULE 3 — INFLATED BOATS

1. General
  - 1.1 An inflated boat is a composite craft combining a flexible...
  - 1.2 All inflated boats prescribed in this Schedule shall:
    2. Construction
      - 2.1 All boats shall be properly constructed and shall be of...
      - 2.2 All boats shall be of sufficient strength to enable them...
      - 2.3 At least one portable thwart shall be fitted to enable...
      - 2.4 Each boat shall be of sufficient strength to withstand, when...
      - 2.5 The number of persons which a boat shall be permitted...
      - 2.6 Each seating position shall be clearly indicated in the boat...
      - 2.7 All boats shall have a boarding ladder that can be...
      - 2.8 The boat shall be so arranged that helpless people can...
      - 2.9 All surfaces on which persons might walk shall have a...
    - 2.10 All inflated boats, when loaded with 50% of the number...
    - 2.11 An inflated boat shall: (2.11.1) be not less than 3.8...
    - 2.12 Unless the boat has adequate sheer, it shall be provided...
    - 2.13 Boats shall be capable of manoeuvring at speeds of at...
    - 2.14 Boats shall have sufficient mobility and manoeuvrability in a seaway...
    - 2.15 The boat shall be fitted with an outboard engine having...
    - 2.16 Arrangements for towing shall be permanently fitted in boats and...
    - 2.17 Boats shall be fitted with weathertight stowage for small items...
    - 2.18 A boat shall be constructed in such a way that,...
    - 2.19 Inflated boats shall be constructed so as to be capable...
    - 2.20 The buoyancy of an inflated boat shall be provided by...
    - 2.21 The buoyancy tubes forming the boundary of the inflated boat...
    - 2.22 Each buoyancy compartment shall be fitted with a non-return valve...
    - 2.23 When inverted in the water an inflated boat shall be...
    - 2.24 Rubbing strips shall be provided underneath the bottom and on...
    - 2.25 Where a transom is fitted it shall not be inset...
    - 2.26 Suitable patches shall be provided for securing painters forward and...
    - 2.27 The boat shall be maintained at all times in a...
    - 2.28 All inflated boats shall be fitted with a protective stowage...
  3. Boat Propulsion
    - 3.1 A petrol-driven outboard engine with an approved fuel system may...
    - 3.2 A petrol engine shall be provided with a manual starting...
    - 3.3 Unless the propeller is so arranged so as to avoid...
    - 3.4 The exhaust pipe shall be so arranged as to prevent...
    - 3.5 The boat engine and accessories shall be designed to limit...
    - 3.6 Water-resistant instructions for starting and operating the engine shall be...
  4. Boat Fittings

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- 4.1 All boats shall be provided with at least one drain...
- 4.2 Except in the vicinity of the outboard engine, a buoyant...
- 4.3 Boats which are not self-righting when capsized shall have suitable...
- 4.4 A boat shall be capable of being launched by means...
- 4.5 Unless expressly provided otherwise, every boat shall be provided with...
  - 5. Lifting Arrangements
  - 5.1 Bridle slinging arrangements shall be fitted to enable the boat...
  - 5.2 The bridle shall be manufactured of a material which will...
  - 5.3 The forward lifting attachments shall be securely fastened to the...
  - 5.4 The after lifting attachments shall be similar to the forward...
  - 5.5 The bridle slinging arrangements used for lowering and recovering the...
  - 5.6 The bridle sling lifting arrangements shall be proof tested to...
- 6. Markings
- 6.1 The dimensions of the boat, the number of persons which...
- 6.2 The name and port of registry of the ship to...
- 6.3 Means of identifying the ship to which the boat belongs...
- 6.4 All material used to mark an inflated boat shall be...
- 7. Boat Equipment
- 7.1 All items of boat equipment, with the exception of the...
- 7.2 The equipment of every boat shall consist of:
  - 8. Instructions and Information
  - 8.1 Instructions and information required for inclusion in the training manual...

#### SCHEDULE 4 — LIFERAFTS

##### PART I — INFLATABLE LIFERAFTS(SOLAS)

- 1. General
- 1.1 All inflatable liferafts prescribed in this Part shall:
  - 2. Construction
  - 2.1 Every liferaft shall be so constructed as to be capable...
  - 2.2 The liferaft shall be so constructed that when it is...
  - 2.3 The floating liferaft shall be capable of withstanding repeated jumps...
  - 2.4 The liferaft and its fittings shall be so constructed as...
  - 2.5 The liferaft shall have a canopy to protect the occupants...
  - 2.6 The main buoyancy chamber shall be divided into:
  - 2.7 The floor of the liferaft shall be waterproof and shall...
  - 2.8 The liferaft shall be inflated with a non-toxic gas by...
  - 2.9 Each inflatable compartment shall be capable of withstanding a pressure...
  - 2.10 The number of persons which a liferaft shall be permitted...
  - 2.11 No liferaft shall be approved which has a carrying capacity...
  - 2.12 Unless the liferaft is to be launched by an approved...
- 3. Liferaft Fittings
- 3.1 Liferafts shall be securely becketed around the inside and outside...
- 3.2 The liferaft shall be provided with arrangements for adequately siting...
- 3.3 The liferaft shall be fitted with an efficient painter of...
- 3.4 The breaking strength of the painter system including its means...
- 3.5 At least one entrance shall be fitted with a semi-rigid...
- 3.6 Entrances not provided with a boarding ramp shall have a...
- 3.7 There shall be means inside the liferaft to assist persons...
- 3.8 The stability of liferafts capable of carrying 25 persons or...
- 3.9 The stability of the liferaft when loaded with its full...
- 3.11 At least one manually controlled lamp complying with the requirements...
- 3.12 A manually controlled lamp complying with the requirements of Part...
- 3.13 Each inflatable liferaft shall be fitted with equipment complying with...



4. Containers for inflatable liferafts
    - 4.1 The liferaft shall be packed in a container that is:...
    - 4.2 The liferaft shall be packed in its container in such...
    - 4.3 The container shall be marked with: (4.3.1) maker's name or...
  5. Markings on inflatable liferafts
    - 5.1 maker's name or trade mark;
    - 5.2 serial number;
    - 5.3 date of manufacture (month and year);
    - 5.4 DOT(UK) APPROVED;
    - 5.5 name and place of servicing station where it was last...
    - 5.6 number of persons it is permitted to accommodate over each...
  6. Davit-launched inflatable liferafts
    - 6.1 In addition to the above requirements, a liferaft for use...
    - 6.2 Rigid containers for liferafts to be launched by a launching...
    - 6.3 Every davit-launched liferaft shall be so arranged that it can...
  7. Instructions and Information
    - 7.1 Instructions and information required for inclusion in the training manual...
- PART II — OPEN REVERSIBLE LIFERAFTS
1. General
    - 1.1 All liferafts shall: (1.1.1) be constructed with proper workmanship and...
  2. Construction
    - 2.1 The liferaft shall be so constructed that when it is...
    - 2.2 The floating liferaft shall be capable of withstanding repeated jumps...
    - 2.3 The liferaft and its fittings shall be so constructed as...
    - 2.4 The liferaft when fully inflated shall be capable of being...
    - 2.5 The main buoyancy chamber shall be divided into:
    - 2.6 The floor of the liferaft shall be waterproof.
    - 2.7 The liferaft shall be inflated with a non-toxic gas by...
    - 2.8 Each inflatable compartment shall be capable of withstanding a pressure...
    - 2.9 The buoyancy tubes are to be of a highly visible...
    - 2.10 The number of persons which a liferaft shall be permitted...
    - 2.11 No liferaft shall be approved with a carrying capacity of...
  3. Liferaft Fittings
    - 3.1 Lifelines shall be securely becketed around the inside and outside...
    - 3.2 The liferaft shall be fitted with an efficient painter of...
    - 3.3 The breaking strength of the painter system including its means...
    - 3.4 The liferaft shall be fitted with at least the following...
    - 3.5 The liferaft shall be fitted with water pockets complying with...
    - 3.6 At least one manually controlled lamp complying with the requirements...
    - 3.7 Suitable automatic drain arrangements are to be provided on each...
    - 3.8 The equipment of every liferaft shall consist of:
    - 3.9 Liferafts equipped in accordance with paragraph 3.8 be marked in...
    - 3.10 Where appropriate the equipment shall be stowed in a container...
  4. Containers for open reversible inflatable liferafts
    - 4.1 The liferaft shall be packed in a container that is:...
    - 4.2 The container shall be marked with: (4.2.1) maker's name or...
  5. Markings on open reversible inflatable liferafts
    - 5.1 The liferaft shall be marked with: (5.1.1) maker's name or...
  6. Instructions and Information
    - 6.1 Instructions and information required for inclusion in the training manual...
- PART III — RIGID LIFERAFTS
1. General
    - 1.1 All rigid liferafts prescribed in this Part shall:

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2. Construction
  - 2.1 Every liferaft shall be so constructed as to be capable...
  - 2.2 The liferaft shall be so constructed that when it is...
  - 2.3 The floating liferaft shall be capable of withstanding repeated jumps...
  - 2.4 The liferaft and its fittings shall be so constructed as...
  - 2.5 The liferaft shall have a canopy to protect the occupants...
  - 2.6 The buoyancy of the liferaft shall be provided by approved...
  - 2.7 The floor of the liferaft shall prevent the ingress of...
  - 2.8 The number of persons which a liferaft shall be permitted...
  - 2.9 No liferaft shall be approved which has a carrying capacity...
  - 2.10 Unless the liferaft is to be launched by an approved...
3. Liferaft Fittings
  - 3.1 Lifelines shall be securely becketed around the inside and outside...
  - 3.2 The liferaft shall be provided with arrangements for adequately siting...
  - 3.3 The liferaft shall be fitted with an efficient painter of...
  - 3.4 The breaking strength of the painter system including its means...
  - 3.5 At least one entrance shall be fitted with a rigid...
  - 3.6 Entrances not provided with a boarding ramp shall have a...
  - 3.7 There shall be means inside the liferaft to assist persons...
  - 3.8 Unless the liferaft is capable of operating safely whichever way...
  - 3.9 The stability of a liferaft when loaded with its full...
  - 3.10 At least one manually controlled lamp complying with the requirements...
  - 3.11 A manually controlled lamp complying with the requirements of Part...
  - 3.12 Each rigid liferaft shall be fitted with equipment complying with...
4. Markings on rigid liferafts
  - 4.1 The liferafts shall be marked with: (4.1.1) name and port...
5. Davit-launched rigid liferafts
  - 5.1 In addition to the above requirements, a rigid liferaft for...
  - 5.2 Every davit-launched liferaft shall be so arranged that it can...
6. Instructions and Information
  - 6.1 Instructions and information required for inclusion in the training manual...
    - PART IV — LIFERAFT EQUIPMENT(SOLAS)
      - 1.1 Subject to the provisions of paragraph 1.3 of this Part,...
      - 1.2 Liferafts equipped in accordance with paragraph 1.1 shall be marked...
      - 1.3 Liferafts carried onboard ships of Classes III, IV, V, VI...
      - 1.4 Liferafts equipped in accordance with 1.3 shall be marked in...
      - 1.5 Where appropriate the equipment shall be stowed in a container...
    - PART V — AUTOMATIC RELEASE HOOKS
      1. Definitions
        - 1.1 In this Part the following definitions apply:
          2. Functional criteria
            - 2.1 The hook shall be reliable and easily handled by one...
            - 2.2 The hook and its accessories shall be made of materials...
            - 2.3 A minimum factor of safety of six based on the...
            - 2.4 The lever for manual release and the actuating mechanism may...
            - 2.5 There shall be a clear and durable indicator to show...
            - 2.6 With the hook in the automatic release position the liferaft...
            - 2.7 It shall be possible to release the hook manually after...
          3. Compatibility
            - 3.1 The compatibility of automatic release hooks and inflatable liferafts shall...
        4. Instructions and Information
          - PART VI — FLOAT FREE ARRANGEMENTS
            1. General

- 2. Painter System
  - 3. Hydrostatic Release Unit
  - 3.1 Construction
  - 3.2 Materials and Components
  - 3.3 Performance
  - 3.4 Marking
  - 3.5 Instructions and Information
  - 4. Weak Link
  - 4.1 Construction and Materials
  - 4.2 Performance
- PART VII — LIFERAFT LIGHTS
- 1. General
  - 1.1 Internal and External Lights (1.1.1) The lights shall be arranged...
  - 2. Construction
  - 2.1 The complete light unit shall be constructed with proper workmanship...
  - 2.2 It shall be capable of withstanding the drop-test on a...
  - 2.3 It shall be capable of withstanding a drop of 2...
  - 2.4 It shall be rot-proof, corrosion-resistant, and not be unduly affected...
  - 2.5 It shall not deteriorate due to damp or humidity when...
  - 2.6 The power source shall be a sea activated or dry...
  - 2.7 The power source shall be proofed against leakage of any...
  - 2.8 The connection between light and power source shall be suitably...
  - 2.9 The power source in the inactive condition with the terminals...
  - 2.10 The lamp holder, and lens shall be so constructed to...
  - 2.11 A flashing light shall not be fitted with a lens...
  - 3. Performance
  - 3.1 Internal and External Lights (3.1.1) The lights shall have an...
  - 3.2 Internal Light (3.2.1) The light shall be of sufficient luminous...
  - 3.3 External Light (3.3.1) The light shall be visible on a...
  - 4.1 The power source shall be marked externally with:
  - 4.2 If the power source is a chemical pressurised cell it...
- PART VIII — GAS INFLATION SYSTEM
- 1. General
  - 1.1 The component parts of the gas inflation system shall be...
  - 1.2 The capacity of the gas charge shall be sufficient to...
  - 1.3 The inflation system shall be fitted with a pressure relief...
  - 1.4 The inflation system shall provide sufficient pressure to enable a...
  - 1.5 Activation of the inflation system shall be capable of being...
  - 1.6 The gas cylinder, valve, and operating head shall be fitted...
  - 1.7 The inflation system shall not be damaged in stowage and...
  - 1.8 The inflation system shall operate in a satisfactory manner throughout...
  - 1.9 The gas cylinder, cylinder valve, and operating head shall be...
  - 1.10 Gas cylinders, cylinder valves, and operating heads of aluminium alloy...
  - 2. Gas
  - 2.1 The gas used in the inflation system shall be non-toxic....
  - 2.2 It shall provide a high rate of inflation, and shall...
  - 2.3 If the gas used is carbon dioxide its dryness shall...
  - 2.4 The filling ratio (weight of gas to the weight of...
  - 2.5 The excess gas from the relief valves must not be...
  - 3. Gas Cylinders
  - 3.1 The gas cylinder shall be acceptable to the Department of...
  - 3.2 The gas cylinder shall be periodically inspected, tested, and maintained...
  - 3.3 Recharging of the gas cylinder shall be carried out at...

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- 3.4 The neck of the gas cylinder shall be suitably threaded...
- 3.5 If the gas used is carbon dioxide the gas passages...
- 3.6 To allow for variation in the accuracy of scales a...
- 3.7 Charged gas cylinders with a gas capacity of 1.1 kg...
- 3.8 The gas cylinder shall be permanently marked with:
- 3.9 The gas cylinder after charging shall be clearly stencilled with:...
- 4. Gas Cylinder Valve
  - 4.1 The cylinder valve shall be fitted with a safety relief...
  - 4.2 Threads on the cylinder valve for attachment of the high...
  - 4.3 A cylinder valve constructed from aluminium alloy shall be anodised...
  - 4.4 The cylinder valve when attached to an approved gas cylinder...
  - 4.5 The cylinder valve shall be constructed of materials which will...
- 5. Gas Cylinder Operating Head
  - 5.1 The connection between the operating head and the liferaft painter...
  - 5.2 The operating head at a cylinder pressure of 8.6 MPa...
  - 5.3 The operating head shall be fitted with a positive means...
  - 5.4 Attachment of the operating head to the gas cylinder shall...
  - 5.5 The operating head shall be made from non-corrodible materials.
  - 5.6 An operating head constructed from aluminium alloy shall be anodised...
  - 5.7 If a pulley arrangement is used in the operating mechanism...
  - 5.8 The operating head shall be sealed against the ingress of...
- 6. High Pressure Hose Assembly
  - 6.1 A high pressure hose shall be used to connect the...
  - 6.2 It shall be constructed of natural or synthetic rubber or...
  - 6.3 It shall be fitted with end connectors of sufficient strength...
  - 6.4 Where nipples are inserted into the ends of the hose...
  - 6.5 The outer casing of the hose shall be suitably protected...
  - 6.6 The hose shall have a minimum bursting pressure of 21...
  - 6.7 The hose shall operate in a satisfactory manner throughout an...
  - 6.8 The hose shall be capable of being bent through 180...
  - 6.9 The hose shall not distort or be damaged when subjected...
  - 6.10 Every hose shall be carefully inspected and marked by the...
  - 6.11 The hose shall be marked externally with:
- 7. Valves
  - 7.1 Non-return valves shall be provided at each position where gas...
  - 7.2 A safety relief valve of sufficient flow capacity that it...
  - 7.3 A relief valve shall re-seat at a pressure sufficient to...
  - 7.4 An inlet valve shall be fitted to each chamber inflated...
  - 7.5 Deflation valves or plugs shall be fitted of sufficient number...
  - 7.6 Non-return valves or other equivalent arrangements shall be fitted to...
  - 7.7 An inlet valve for topping up the pressure when necessary...
  - 7.8 An inlet valve shall be fitted to the floor so...
  - 7.9 A deflation valve or plug shall be fitted to the...
  - 7.10 A non return valve or other equivalent arrangement shall be...
  - 7.11 Air aspirators if fitted in the inflation system shall be...

## SCHEDULE 5 — MARINE ESCAPE SYSTEMS

### PART I — CONSTRUCTION AND PERFORMANCE

- 1. General
  - 1.1 A marine escape system shall provide a complete evacuation system...
  - 1.2 The system shall: (1.2.1) be constructed with proper workmanship and...
- 2. Construction
  - 2.1 The container housing the escape chute and boarding platform shall:...

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- 2.3 The boarding platform shall: (2.3.1) be stable in a seaway...
- 3. Performance of the System
  - 3.1 be capable of deployment by one person at the embarkation...
  - 3.2 not interfere with the deployment of any other life-saving equipment...
  - 3.3 be capable of evacuating 200% of its designed capacity without...
  - 3.4 be capable of satisfactory operation in a seaway;
  - 3.5 enable the total number of persons for which it is...
  - 3.6 being capable of being deployed from a passenger ship with...
  - 3.7 be evaluated by means of timed evacuation deployments conducted both...
- 4. Associated Inflatable Liferafts
  - 4.1 conform with the requirements of Part I of Schedule 4...
  - 4.2 be sited close to the system container but be capable...
  - 4.3 be capable of release from its stowage rack with arrangements...
  - 4.4 be capable of release from its stowage rack as an...
  - 4.5 be provided with float free arrangements complying with the requirements...
- 5. Instructions and Information
  - 5.1 general description of the system;
  - 5.2 installation arrangements;
  - 5.3 operational instructions for the system, and associated survival craft;
  - 5.4 on-board maintenance requirements; and
  - 5.5 servicing requirements.

#### PART II — TRAINING

- 1. Facilities for crew training in the use of marine escape...
  - 1.1 the provision on board of an operational manual for the...
  - 1.2 the provision of on-board training aids; and
  - 1.3 the provision ashore of a training course including as far...

### SCHEDULE 6 — LAUNCHING APPLIANCES AND EMBARKATION LADDERS

#### PART I — GENERAL

- 1. Launching Appliances – General Requirements
  - 1.1 Each survival craft and rescue boat launching appliance, together with...
  - 1.2 Davits, winches, falls, blocks and all other launching gear provided...
- 2. Launching appliances using falls and a winch
  - 2.1 An efficient hand gear shall be provided for recovery of...
  - 2.2 Where davit arms are recovered by power, safety devices shall...
  - 2.3 A lifeboat launching appliance shall be capable of recovering and...
  - 2.4 Every rescue boat launching appliance shall be fitted with a...
  - 2.5 Every rescue boat launching appliance shall be capable of hoisting...
  - 2.6 Except in the case where a rescue boat is fitted...
  - 2.7 Every survival craft and rescue boat launching appliance shall be...
  - 2.8 Manual brakes shall be so arranged that the brake is...
- 3. Float-free launching
  - 3.1 Where a survival craft requires a launching appliance and is...
- 4. Evacuation-slide launching and embarkation
  - 4.1 Every evacuation-slide launching appliance shall, in addition to complying with...
- 5. Instructions and Information
  - 5.1 Instructions and information required for inclusion in the training manual...

#### PART II — LIFEBOAT AND RESUE BOAT LAUNCHING APPLIANCES

##### General

- 1. Definition of “Working Load”
  - 1.1 In this Part the expression “Working Load” means:

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- Construction
  - 2. General
    - 2.1 Every set of davits for a lifeboat or rescue boat...
    - 2.2 A set of davits for a lifeboat and rescue boat...
    - 2.3 The arrangements of the davits shall be such as to...
    - 2.4 If partially enclosed lifeboats are carried, a davit span shall...
  - 3. Strength
    - 3.1 Every davit serving a lifeboat which is required to be...
    - 3.2 Every davit serving a lifeboat which is required to be...
    - 3.3 Every set of davits, davit or other means of launching...
    - 3.4 Every set of davits, davit or other means of launching...
  - 4. Gravity davits
    - 4.1 All gravity davits shall be so designed that there is...
  - 5. Luffing davits
    - 5.1 The operating gear of all luffing type davits shall be...
  - 6. Stresses
    - 6.1 Structural members and all block falls, padeyes, links, fastenings and...
  - 7. Static load test
    - 7.1 Each davit, and its attachments, shall, with its arm in...
  - 8. Attachments at the davit head
    - 8.1 The attachments at the davit head from which the blocks...
  - 9. Blocks
    - 9.1 Lower blocks, when fitted, shall be non-toppling and in the...
    - 9.2 The blocks shall be capable of withstanding a proof load...
  - 10. Wire ropes
    - 10.1 Falls shall be of rotation-resistant and corrosion-resistant steel wire rope....
    - 10.2 The breaking tensile load of each wire rope used for...
    - 10.3 Wire ropes shall be securely attached to the drum of...
    - 10.4 Where wire rope splices or ferrule-secured eye terminals are used...
    - 10.5 Lifeboats and rescue boats attached to davits shall have the...
  - 11. Winches
    - 11.1 In the case of a multiple drum winch, unless an...
    - 11.2 Winch breaks shall be of robust construction and afford complete...
    - 11.3 The speed at which the fully laden lifeboat or rescue...
    - 11.4 Notwithstanding the requirements of paragraph 11.3 the speed of lowering...
    - 11.5 The brake gear of the winch shall include means for...
    - 11.6 Hand gear handles shall not be rotated by moving parts...
    - 11.7 The launching mechanism shall be so arranged that it may...
- PART III — LIFERAFT LAUNCHING APPLIANCES
- General
    - 1. Definition of “Working Load”
      - 1.1 In this Part the expression “working load” means:
        - Construction
        - 2. General
          - 2.1 Each liferaft launching appliance shall be so constructed that a...
          - 2.2 A liferaft launching appliance shall not be solely dependent on...
          - 2.3 The arrangements of the launching appliance shall be such as...
        - 3. Strength
          - 3.1 Every launching appliance serving a liferaft which is required by...
        - 4. Stresses
          - 4.1 Structural members and all blocks, falls, padeyes, links, fastenings and...
        - 5. Static load test

- 5.1 Every launching appliance and its attachments other than the winch...
6. Wire ropes
  - 6.1 Falls shall be of rotation-resistant and corrosion-resistant steel wire rope...
  - 6.2 The braking tensile load of each wire rope used for...
  - 6.3 Wire ropes shall be securely attached to the drum of...
  - 6.4 Where wire rope splices or ferrule-secured eye terminals are used...
  - 6.5 The falls of a liferaft launching appliance shall be at...
7. Winches
  - 7.1 Winch brakes shall be of robust construction and afford complete...
  - 7.2 The speed at which the fully laden liferaft is lowered...
  - 7.3 Notwithstanding the requirements of paragraph 7.2 the speed of lowering...
  - 7.4 The brake gear of the winch shall include means for...
  - 7.5 Hand gear handles shall not be rotated by moving parts...
  - 7.6 The launching mechanism shall be so arranged that it may...
  - 7.7 If the lowering of the liferaft is actuated from within...
8. Release of the liferaft
- 8.1 The launching appliance shall be so arranged as to prevent...

#### PART IV — INFLATED BOAT LAUNCHING APPLIANCES

##### General

1. Definitions
  - 1.1 In this Part the expression “working load” means the sum...
  - 1.2 In this Part the expression “inflated boat” means any inflated...
2. Construction
  - 2.1 Every inflated boat launching appliance shall be so constructed to...
  - 2.2 Each launching appliance shall be so constructed that the minimum...
  - 2.3 A launching appliance shall be dependent only on manual effort,...
3. Strength
  - 3.1 Every launching appliance serving an inflated boat shall, together with...
4. Stresses
  - 4.1 Structural members and all blocks, falls, padeyes, links, fastenings and...
5. Static load test
  - 5.1 Every launching appliance and its attachments other than the winch...
6. Winches
  - 6.1 Every such launching appliance shall be provided with a winch...
  - 6.2 Winch brakes shall be of robust construction and afford complete...
  - 6.3 The speed at which the inflated boat is lowered into...
  - 6.4 Notwithstanding the requirements of paragraph 6.3 the speed of lowering...
  - 6.5 The brake gear of the winch shall include means for...
  - 6.6 Hand gear handles shall not be rotated by moving parts...
  - 6.7 The launching mechanism shall be so arranged that it may...
7. Wire rope falls
  - 7.1 Wire rope falls shall be of rotation-resistant and corrosion-resistant steel...
  - 7.2 The breaking tensile load of each wire rope used for...
  - 7.3 Wire ropes shall be securely attached to the drum of...
  - 7.4 Where wire rope splices or ferrule-secured eye terminals are used...
  - 7.5 The falls of the inflated boat launching appliance shall be...
8. Cordage rope falls
  - 8.1 Cordage rope falls shall be of manila or some other...
  - 8.2 Such falls shall be at least long enough to reach...
9. Bollards
  - 9.1 Suitable bollards or other equally effective appliances for lowering any...

#### PART V — EMBARKATION LADDERS

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1. Construction
- 1.1 The steps of the embarkation ladder shall be:
- 1.2 The side ropes of the embarkation ladder shall consist of...

## SCHEDULE 7 — SURVIVAL CRAFT AND RESCUE BOAT EQUIPMENT

### PART I — SEA ANCHORS

1. A sea anchor shall be conical in shape and have...
2. The sea anchor material shall be porous, slightly stiff and...
3. The painter line used to secure the sea anchor to...
  - 3.1 be inherently rot proof and of braided construction.
  - 3.2 be 30 metres long, not less than 8 mm in...
4. The shroud lines shall be designed to restrict the sea...
5. The sea anchor shall be stable when towed through the...
6. The sea anchor mouth shall open immediately on deployment.

### PART II — FIRST AID OUTFIT

1. The first aid outfit provided in every lifeboat, rescue boat,...
- 1.1 It shall be packed in a durable, damp-proof and effectively...
- 1.2 The container shall be protected, until opened for use, with...
- 1.3 The container shall bear on its outside an itemised list...
- 1.4 It shall include the following items, each of which must...

### PART III — FRESH WATER

1. General
  - 1.1 The water shall comply with the UK Laboratory of the...
  - 1.2 Processing packaging and sterilisation arrangements shall be carried out under...
  - 1.3 The water shall remain palatable in its stowage in the...
2. Water Containers
  - 2.1 Sachets (2.1.1) The water shall be packed in efficiently sealed...
  - 2.2 Cans (2.2.1) A can in which drinking water is supplied...
  - 2.3 Bottles (2.3.1) A bottle in which drinking water is supplied...
3. Water tanks
  - 3.1 Tanks fitted for fresh water in a survival craft may...
  - 3.2 Each tank is to be filled and emptied to ensure...
  - 3.3 The tank shall be strong enough to withstand a head...
  - 3.4 Where necessary the inside of the tank shall be suitably...
  - 3.5 Tanks which are not portable shall be fitted with drain...
  - 3.6 Filling plugs and aperture covers shall be of non-ferrous materials,...
  - 3.7 Tanks shall be sited well clear of any propelling machinery,...
  - 3.8 At least one rustproof dipper with a lanyard shall be...
  - 3.9 The inside of tanks constructed with glass reinforced plastic must...
  - 3.10 Tanks made out of glass reinforced plastic shall be opaque....
  - 3.11 The tank shall be clearly marked on the outside with...

## SCHEDULE 8 — PYROTECHNIC SIGNALS AND LINE-THROWING APPLIANCES

### PART I — ROCKET PARACHUTE FLARES

1. Construction
  - 1.1 A rocket parachute flare shall: (1.1.1) be constructed with proper...
2. Performance
  - 2.1 A rocket parachute flare shall not be damaged in stowage...
  - 2.2 A rocket shall, when fired vertically, reach an altitude of...
  - 2.3 The rocket shall in addition be capable of functioning when...
3. Marking



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- 3.1 A rocket parachute flare shall have brief instructions or diagrams...
  - 3.2 The date of manufacture and the date of expiry shall...
  - 3.3 The words “DOT (UK) APPROVED” shall be marked indelibly on...
- PART II — HAND FLARES
- 1. Construction
    - 1.1 A hand flare shall: (1.1.1) be constructed with proper workmanship...
  - 2. Performance
    - 2.1 A hand flare shall not be damaged in stowage throughout...
    - 2.2 A hand flare shall: (2.2.1) burn with a bright red...
  - 3. Marking
    - 3.1 A hand flare shall have brief instructions or diagrams clearly...
    - 3.2 The date of manufacture and the date of expiry shall...
    - 3.3 The words “DOT (UK) APPROVED” shall be marked indelibly on...
- PART III — BUOYANT SMOKE SIGNALS
- 1. Construction
    - 1.1 A buoyant smoke signal shall: (1.1.1) be constructed with proper...
  - 2. Performance
    - 2.1 A buoyant smoke signal shall not be damaged in stowage...
    - 2.2 It shall be capable of satisfactory operation in a seaway...
    - 2.3 A buoyant smoke signal shall: (2.3.1) emit smoke of a...
    - 2.4 It shall be safe to operate in water covered by...
  - 3. Marking
    - 3.1 A buoyant smoke signal shall have brief instructions or diagrams...
    - 3.2 The date of manufacture and the date of expiry shall...
    - 3.3 The words “DOT (UK) APPROVED” shall be marked indelibly on...
- PART IV — LINE-THROWING APPLIANCES
- 1. Construction
    - 1.1 A line-throwing appliance shall: (1.1.1) be constructed with proper workmanship...
    - 1.2 Rockets, cartridges and igniters shall be so constructed that all...
    - 1.3 Rockets, cartridges and igniters shall be so constructed that any...
  - 2. Performance
    - 2.1 A line-throwing appliance shall not be damaged in stowage throughout...
    - 2.2 A line-throwing appliance shall be capable of throwing a line...
    - 2.3 A line-throwing appliance shall be capable of throwing a line...
  - 3. Marking
    - 3.1 A line-throwing appliance shall be marked with brief instructions or...
    - 3.2 The date of manufacture and the date of expiry shall...
    - 3.3 The words “DOT (UK) APPROVED” shall be marked indelibly on...
- PART V — INSTRUCTIONS, INFORMATION AND STOWAGE
- 1. Instructions and information for the pyrotechnic signals specified in Parts...
    - 1.1 description of item;
    - 1.2 method of use including any precautions or warnings;
    - 1.3 stowage;
    - 1.4 guidance on when to use; and
    - 1.5 instructions for replacing rockets, cartridges or strikers (integral line-throwing appliance)...

## SCHEDULE 9 — LIFEBUOYS AND ATTACHMENTS

### PART I — LIFEBUOYS (SOLAS)

- 1. Construction
  - 1.1 A lifebuoy shall be constructed with proper workmanship and materials...
  - 1.2 As applicable the materials of a lifebuoy shall be rot-proof,...

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- 1.3 A lifebuoy shall be of a highly visible colour.
  - 1.4 It shall be fitted with retro-reflective material where it will...
  - 1.5 A lifebuoy shall have an outer diameter of not more...
  - 1.6 A lifebuoy shall be constructed of inherently buoyant material. It...
  - 1.7 It shall have a mass of not less than 2.5...
  - 1.8 It shall be constructed to withstand a drop into water...
  - 1.9 It shall be fitted with a grabline not less than...
  2. Performance
    - 2.1 A lifebuoy shall not be damaged in stowage throughout the...
    - 2.2 It shall operate throughout a sea-water temperature range of  $-1^{\circ}\text{C}$ ...
    - 2.3 A lifebuoy shall be resistant to deterioration from exposure to...
    - 2.4 It shall be capable of satisfactory operation in a seaway...
    - 2.5 A lifebuoy shall be capable of supporting not less than...
    - 2.6 It shall not sustain burning or continue melting after being...
  3. Marking
    - 3.1 A lifebuoy shall be marked in block capitals of the...
    - 3.2 A lifebuoy constructed of synthetic materials shall be permanently marked...
    - 3.3 A lifebuoy shall be permanently marked with the maximum height...
- PART II — LIFEBUOY SELF-IGNITING LIGHTS
1. Construction
    - 1.1 A lifebuoy self-igniting light shall be constructed with proper workmanship...
    - 1.2 As applicable the materials of a lifebuoy self-igniting light shall...
    - 1.3 It shall be constructed to withstand a drop into the...
    - 1.4 It shall be provided with means for being efficiently attached...
    - 1.5 Components of electronic circuits shall comply with the quality control...
  2. Performance
    - 2.1 A lifebuoy self-igniting light shall not be damaged in stowage...
    - 2.2 It shall operate throughout a sea-water temperature range of  $-1^{\circ}\text{C}$ ...
    - 2.3 It shall be resistant to deterioration from exposure to sunlight...
    - 2.4 It shall be capable of satisfactory operation in a seaway...
    - 2.5 A lifebuoy self-igniting light shall be such that it cannot...
    - 2.6 It shall be capable of either burning continuously with a...
  3. Marking
    - 3.1 the manufacturer's name or trade mark;
    - 3.2 the words "DOT (UK) APPROVED";
    - 3.3 clear and concise directions for use in English supported where...
    - 3.4 type of energy source;
    - 3.5 date of manufacture and expiry in the case of a...
    - 3.6 maximum height above waterline at which it can be stowed....
  4. Instructions and Information
    - 4.1 Instructions and information required for inclusion in the training manual...
- PART III — LIFEBUOY SELF-ACTIVATING SMOKE SIGNALS
1. Construction
    - 1.1 A lifebuoy self-activating smoke signal shall be constructed with proper...
    - 1.2 As applicable the materials of a lifebuoy self-activating smoke signal...
    - 1.3 It shall be constructed to withstand a drop into the...
    - 1.4 It shall be provided with means for being efficiently attached...
    - 1.5 A lifebuoy self-activating smoke signal may also be provided with...
  2. Performance
    - 2.1 A lifebuoy self-activating smoke signal shall not be damaged in...
    - 2.2 It shall operate throughout a sea-water temperature range of  $-1^{\circ}\text{C}$ ...

- 2.3 It shall be resistant to deterioration from exposure to sunlight...
  - 2.4 It shall be capable of satisfactory operation in a seaway...
  - 2.5 A lifebuoy self-activating smoke signal shall emit smoke of a...
  - 2.6 It shall not ignite explosively or emit any flame during...
  - 2.7 It shall not be swamped in a seaway. 2.8It shall...
  - 2.9 It shall be capable of quick release from its stowed...
  - 2.10 It shall be safe to operate in waters covered by...
  - 2.11 All components, composition and ingredients of the lifebuoy self-activating smoke...
- 3. Marking
    - 3.1 the manufacturer's name or trade mark;
    - 3.2 the lot number or other means of identifying the signal;...
    - 3.3 the words "DOT (UK) APPROVED";
    - 3.4 clear and concise directions for use in English supported where...
    - 3.5 the date of manufacture and date of expiry;
    - 3.6 type of energy source in the case of a signal...
    - 3.7 maximum height above the waterline at which it can be...
  - 4. Instructions and Information
    - 4.1 Instructions and information required for inclusion in the training manual...

#### PART IV — LIFEBOUY BUOYANT LIFELINES

- 1. Construction
  - 1.1 A lifebuoy buoyant lifeline shall be non-kinking.
  - 1.2 It shall have a diameter of not less than 8...
  - 1.3 It shall have a breaking strength of not less than...
  - 1.4 It shall be resistant to deterioration from exposure to sunlight...
  - 1.5 It shall have a length not less than twice the...

### SCHEDULE 10 — LIFEJACKETS AND ATTACHMENTS

#### PART I — INHERENTLY BUOYANT LIFEJACKETS

- 1. Construction
  - 1.1 An inherently buoyant lifejacket shall be constructed with proper workmanship...
  - 1.2 An inherently buoyant lifejacket shall be so constructed that:
  - 1.3 It shall be so constructed that the buoyancy is not...
  - 1.4 It shall be fitted with a whistle firmly secured by...
  - 1.5 It shall be fitted with retro-reflective material where it will...
  - 1.6 It shall be fitted with a ring or loop or...
- 2. Materials
  - 2.1 As applicable, the materials of a lifejacket shall be rot-proof,...
  - 2.2 Buoyancy material shall be of good quality synthetic material, or...
  - 2.3 Cover material where used shall be of good quality synthetic...
  - 2.4 Cover material shall be of a highly visible colour such...
  - 2.5 Where a synthetic cover material is used and the seams...
  - 2.6 Fastening tapes shall be not less than 32 mm wide...
- 3. Performance
  - 3.1 An inherently buoyant lifejacket shall not be damaged in stowage...
  - 3.2 It shall operate throughout a sea-water temperature range of  $-1^{\circ}\text{C}$ ...
  - 3.3 It shall be capable of satisfactory operation in a sea-way...
  - 3.4 It shall have sufficient buoyancy and stability in calm fresh...
  - 3.5 An inherently buoyant lifejacket shall allow the person wearing it...
  - 3.6 It shall not sustain burning or continue melting after being...
- 4. Marking
  - 4.1 An inherently buoyant lifejacket shall be marked indelibly with:

*Status: This is the original version (as it was originally made). This item of legislation is currently only available in its original format.*

5. Inherently buoyant lifejackets for persons weighing less than 32 kg...
  6. Instructions and Information
  - 6.1 Instructions and information required for inclusion in the training manual...
    - PART II — INFLATABLE LIFEJACKETS
    1. Construction
      - 1.1 An inflatable lifejacket shall be constructed with proper workmanship and...
      - 1.2 An inflatable lifejacket shall be so constructed that:
      - 1.3 It shall be so constructed that the buoyancy is not...
      - 1.4 It shall be fitted with a whistle firmly secured by...
      - 1.5 It shall be fitted with retro-reflective material where it will...
      - 1.6 An inflatable lifejacket shall be constructed with not less than...
      - 1.7 In the event of loss of buoyancy in any one...
      - 1.8 The inflatable compartments shall be so located that when inflated...
      - 1.9 An inflatable lifejacket shall comply with the requirements of paragraph...
      - 1.10 It shall be fitted with a ring or loop or...
    2. Materials and Components
      - 2.1 Materials and components shall as applicable be rot-proof, corrosion resistant,...
      - 2.2 Materials used on the exterior of the buoyancy chambers shall...
    3. Performance
      - 3.1 An inflatable lifejacket shall not be damaged in stowage throughout...
      - 3.2 It shall operate throughout a seawater temperature range of  $-1^{\circ}\text{C}$ ...
      - 3.3 It shall be capable of satisfactory operation in a sea-way...
      - 3.4 It shall have sufficient buoyancy and stability in calm fresh...
      - 3.5 An inflatable lifejacket shall allow the person wearing it to...
      - 3.6 It shall not sustain burning or continue melting after being...
    4. Marking
      - 4.1 An inflatable lifejacket shall be marked indelibly with:
        5. Instructions and Information
          - 5.1 description of lifejacket and attachments;
          - 5.2 donning;
          - 5.3 operation;
          - 5.4 packing;
          - 5.5 any maintenance requirements;
          - 5.6 servicing requirements;
          - 5.7 type and charged weight of gas bottles; and
          - 5.8 replacement of gas bottles.
        - PART III — INFLATABLE CIVIL AVIATION AUTHORITY LIFEJACKET
        - PART IV — BUOYANCY AIDS
- SCHEDULE 11 — TRAINING MANUALS AND INSTRUCTIONS FOR ON-BOARD MAINTENANCE
- PART I — TRAINING MANUALS
  1. A training manual shall contain instructions and information on the...
  2. A training manual may comprise one or more volumes and...
  3. As appropriate, the following shall be explained in detail:
    - 3.1 donning of lifejackets;
    - 3.2 muster at the assigned stations;
    - 3.3 boarding, launching, and clearing the survival craft, rescue and inflated...
    - 3.4 method of launching from within the survival craft;
    - 3.5 release from launching appliances;
    - 3.6 methods and use of devices for protection in launching areas;...
    - 3.7 illumination in launching areas;

- 3.8 use of all survival equipment;
  - 3.9 use of all detection equipment;
  - 31.0 with the assistance of illustrations, the use of radio life-saving...
  - 3.11 use of sea anchors;
  - 3.12 use of engine and accessories;
  - 3.13 recovery of survival craft, rescue and inflated boats including stowage...
  - 3.14 hazards of exposure and the need for warm clothing;
  - 3.15 best use of the survival craft facilities in order to...
  - 3.16 methods of retrieval, including the use of helicopter rescue gear...
  - 3.17 all other functions contained in the muster list and emergency...
  - 3.18 instructions for emergency repair of the life-saving appliances.
- PART II — INSTRUCTIONS FOR ON-BOARD MAINTENANCE
- 1. Instructions for on-board maintenance of life-saving appliances shall be in...
  - 2. As appropriate the instructions shall include the following for each...
    - 2.1 a checklist for use when carrying out the inspections required...
    - 2.2 maintenance and repair instructions;
    - 2.3 schedule of periodic maintenance;
    - 2.4 diagram of lubrication points with the recommended lubricants;
    - 2.5 list of replaceable parts;
    - 2.6 list of sources of spare parts; and
    - 2.7 log for records of inspections and maintenance.

#### SCHEDULE 12 — GENERAL EMERGENCY ALARM SYSTEMS

- 1. The general emergency alarm system shall be capable of sounding...
- 2. The system shall be capable of operation from the navigating...

#### SCHEDULE 13 — BUOYANT APPARATUS

- 1. General
  - 1.1 All buoyant apparatus shall: (1.1.1) be constructed with proper workmanship...
  - 2. Construction
    - 2.1 The buoyant apparatus shall be so constructed to withstand a...
    - 2.2 Buoyant apparatus shall be effective and stable when floating either...
    - 2.3 The air cases or equivalent buoyancy shall be placed as...
    - 2.4 Buoyant apparatus shall not exceed 185 kilogrammes in weight unless...
    - 2.5 The number of persons which the buoyant apparatus shall be...
  - 3. Buoyant Apparatus Fittings
    - 3.1 Grab Lines (3.1.1) Buoyant grablines shall be securely fitted all...
    - 3.2 The buoyant apparatus shall be fitted with an efficient painter...
    - 3.3 Retro-reflective material required in accordance with regulation 22 is to...
  - 4. Marking of Buoyant Apparatus
    - 4.1 Each apparatus should be marked as follows;

Explanatory Note