

標題

INTERNATIONAL CODE OF SAFETY FOR SHIPS  
CARRYING INDUSTRIAL PERSONNEL (IP Code) の  
適用について

# ClassNK

## テクニカル インフォメーション

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各位

今般、洋上風力発電の普及に伴い、洋上風力発電設備にアクセスし、風車の設置、海底ケーブルの敷設、稼働後のメンテナンスや撤去等に従事する作業船の増加が見込まれております。従来、これらの作業船において洋上施設に運送される作業員は旅客として扱われ、12人を超える作業員を運送する場合にあっては旅客船の要件を適用する必要がありました。

一方で、作業員を運送する目的のために旅客船の要件を適用することは合理的でないとして、洋上風力・掘削施設等の洋上施設で作業を行う人員 (IP: Industrial Personnel/産業人員) を運送する船舶に対する規定が IMO で議論されておりました。

その結果、2022年11月に開催された IMO 第106回海上安全委員会 (MSC106) において、決議 MSC.527(106) として Industrial Personnel Code (IP コード) が、決議 MSC.521(106) として IP コードを強制化する SOLAS 条約 XV 章がそれぞれ制定され、2024年7月1日に発効しております。

IP コードは、適用条件に応じて新造船及び就航船に適用になりますので、以下にその概要をご説明いたします。

### 1. 旅客、産業人員及び特殊乗船者の定義

- 1.1 旅客 次に掲げる者以外の者をいう。
- 船長及び乗組員並びにその他資格のいかんを問わず乗船して船舶の業務に雇用され又は従事する者
  - 1歳未満の乳児
- 1.2 産業人員 産業人員とは、他の船舶又は洋上施設上で行われる海洋産業活動を目的として、当該施設へ運送される又は宿泊するすべての人員をいう。IP コード適用上、産業人員は旅客として扱わない。
- 1.3 特殊乗船者 旅客、乗組員、又は1歳未満の乳児以外の者であって、その船舶の特殊な目的、又は本船上で実施される特殊な作業を行うために船舶で運送されるすべての者をいう。IP コード適用上、特殊乗船者は旅客として扱わない。

### 2. 新造船への適用

下記条件(1)及び(2)両方に該当する船舶に IP コードは適用となります。

- (1) 2024年7月1日以降に建造される国際航海に従事する総トン数 500 トン以上の船舶  
(2) 旅客船以外であって、旅客、産業人員及び特殊乗船者の合計が 12 人を超え、かつ、産業人員を 1 人以上含む船舶

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### 3. 就航船への適用

下記条件(1)及び(2)両方に該当する船舶に IP コードは適用となります。

(1) 2024 年 7 月 1 日より前に建造された国際航海に従事する総トン数 500 トン以上の船舶

(2) 次のいずれかに該当する場合（なお、条件中の IP の人数は、旅客、産業人員及び特殊乗船者の合計数とする）

- 2024 年 7 月 1 日より前に国際海事機関（IMO）によって作成された勧告に基づいて、主管庁により 12 人を超える IP を乗船させることが認められていない「貨物船」及び「高速貨物船」が、12 人を超える IP を運送する場合※。

- 2024 年 7 月 1 日より前に建造された「貨物船」で、主管庁により、国際海事機関（IMO）によって作成された勧告（決議 MSC.418(97)を参照）に基づき、12 人を超える IP を運送することが認められている場合※。

この場合、2024 年 7 月 1 日以降の最初の間接検査または更新検査のいずれか早い方の時期までに、IP コードの III/1、III/2（第 2.1.7 項を除く）、IV/7、及び IV/8 の規則に適合が必要。

- 2024 年 7 月 1 日より前に建造された「高速貨物船」で、主管庁により、国際海事機関（IMO）によって作成された勧告（決議 MSC.418(97)を参照）に基づき、12 人を超える IP を運送することが認められている場合※。

この場合、2024 年 7 月 1 日以降の 3 回目の定期検査または最初の更新検査のいずれか早い方の時点までに、IP コードの III/1、III/2（第 2.1.7 項を除く）、V/7、及び V/8 の規則に適合が必要。

※上記いずれの場合も旅客定員を有する船舶においては、「産業人員の要件を満たし得る者」が「旅客」定員を超えない範囲で「旅客」として運送されることは許容されております。一例として、12 人を運送できる Crew Transfer Vessel (CTV) については、貨物船としての登録で、IP コードを適用することなく「旅客」として 12 人を運送することができ従来から許容されております。

### 4. 総トン数 500 トン未満の船舶及び国際航海に従事しない船舶の取り扱い

これらの船舶には IP コードは適用となりませんが、IP コードを取り入れた船籍国規則が存在する場合、これに従う必要があり、IP コードの船籍国規則への取り入れについては、各主管庁に問い合わせる必要があります。

また日本籍船舶につきましては、船舶安全法施行規則及び船舶検査心得が一部改正されておりますので、詳細については当該文書（国海安第 43 号及び 44 号）をご確認ください。

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なお、本件に関してご不明な点は、以下の部署にお問い合わせください。

[新造船に関するお問い合わせ]

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添付:

1. MSC.521(106) (002)
2. MSC.527(106) (002)
3. MSC.418(97)

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**ANNEX 3**

**RESOLUTION MSC.521(106)**  
**(adopted on 10 November 2022)**

**AMENDMENTS TO THE INTERNATIONAL CONVENTION FOR THE  
SAFETY OF LIFE AT SEA, 1974 (CHAPTER XV)**

THE MARITIME SAFETY COMMITTEE,

RECALLING Article 28(b) of the Convention on the International Maritime Organization concerning the functions of the Committee,

RECALLING ALSO article VIII(b) of the International Convention for the Safety of Life at Sea, 1974 ("the Convention"), concerning the amendment procedure applicable to the annex to the Convention, other than to the provisions of chapter I,

HAVING CONSIDERED, at its 106th session, amendments to the Convention proposed and circulated in accordance with article VIII(b)(i) of the Convention,

1 ADOPTS, in accordance with article VIII(b)(iv) of the Convention, amendments to the Convention the text of which is set out in the annex to the present resolution;

2 DETERMINES, in accordance with article VIII(b)(vi)(2)(bb) of the Convention, that the said amendments shall be deemed to have been accepted on 1 January 2024, unless, prior to that date, more than one third of the Contracting Governments to the Convention or Contracting Governments the combined merchant fleets of which constitute not less than 50% of the gross tonnage of the world's merchant fleet have notified the Secretary-General of their objections to the amendments;

3 INVITES Contracting Governments to the Convention to note that, in accordance with article VIII(b)(vii)(2) of the Convention, the amendments shall enter into force on 1 July 2024 upon their acceptance in accordance with paragraph 2 above;

4 REQUESTS the Secretary-General, for the purposes of article VIII(b)(v) of the Convention, to transmit certified copies of the present resolution and the text of the amendments contained in the annex to all Contracting Governments to the Convention;

5 ALSO REQUESTS the Secretary-General to transmit copies of this resolution and its annex to Members of the Organization which are not Contracting Governments to the Convention.

ANNEX

**AMENDMENTS TO THE INTERNATIONAL CONVENTION FOR THE  
SAFETY OF LIFE AT SEA, 1974**

**CHAPTER XV  
SAFETY MEASURES FOR SHIPS CARRYING INDUSTRIAL PERSONNEL**

The following new chapter XV (Safety measures for ships carrying industrial personnel) is added after existing chapter XIV (Safety measures for ships operating in polar waters):

**"CHAPTER XV  
Safety measures for ships carrying industrial personnel**

**Regulation 1 - Definitions**

For the purpose of this chapter:

1 *Industrial personnel (IP)* means all persons transported or accommodated on board for the purpose of offshore industrial activities performed on board other ships and/or offshore facilities.

2 *IP Code* means the International Code of Safety for Ships Carrying Industrial personnel, as adopted by the Maritime Safety Committee by resolution MSC.527(106), as may be amended, provided that such amendments are adopted, brought into force and take effect in accordance with the provisions of article VIII of the present Convention concerning the amendment procedures applicable to the annex other than chapter I.

3 *Offshore industrial activities* mean the construction, maintenance, decommissioning, operation or servicing of offshore facilities related, but not limited to, exploration and exploitation of resources by the renewable or hydrocarbon energy sectors, aquaculture, ocean mining or similar activities.

4 *HSC Code* means the International Code of Safety for High-Speed Craft, 2000, adopted by the Maritime Safety Committee by resolution MSC.97(73), as may be amended, provided that such amendments are adopted, brought into force and take effect in accordance with the provisions of article VIII of the present Convention concerning the amendment procedures applicable to the annex other than chapter I.

**Regulation 2 - General**

1 Wherever in the IP Code a reference is made to passenger ship requirements, the corresponding cargo ship requirements are deemed to be complied with.

2 For the purpose of this chapter, industrial personnel shall not be treated or considered as passengers.

3 Wherever in this chapter, or in the IP Code, the number of industrial personnel appears as a parameter, it shall be the aggregate number of industrial personnel, special personnel<sup>1</sup> and passengers carried on board, where the number of passengers shall not exceed 12.

4 Notwithstanding the provisions of regulation 2.1 above, for high-speed craft to which chapter X applies and notwithstanding the provisions of chapters 2 to 12 and 18 of the HSC Code, a ship certified in accordance with the requirements of this chapter and the IP Code shall be deemed to have complied with the requirements of chapters 2 to 12 and 18 of the HSC Code.

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<sup>1</sup> Refer to the Code of Safety for Special Purpose Ships, 2008.

### **Regulation 3**

#### *Application*

1 Unless expressly provided otherwise, this chapter applies to cargo ships and high-speed cargo craft, of 500 gross tonnage and upwards, constructed on or after 1 July 2024 which carry more than 12 industrial personnel.

2 Cargo ships constructed before 1 July 2024, authorized by the Administration to carry more than 12 industrial personnel in accordance with the recommendations developed by the Organization, shall comply with regulations III/1, III/2 (except for paragraph 2.1.7), IV/7 and IV/8 of the IP Code by the first intermediate or renewal survey, whichever occurs first, after 1 July 2024.

3 High-speed cargo craft constructed before 1 July 2024, authorized by the Administration to carry more than 12 industrial personnel in accordance with the recommendations developed by the Organization,<sup>2</sup> shall comply with regulations III/1, III/2 (except for paragraph 2.1.7), V/7 and V/8 of the IP Code by the third periodical or first renewal survey, whichever occurs first, after 1 July 2024.

4 Cargo ships and high-speed cargo craft, irrespective of date of construction, which prior to the 1 July 2024 have not been authorized by the Administration to carry more than 12 industrial personnel based on the recommendations developed by the Organization,<sup>2</sup> shall comply and be certified in accordance with this chapter and the IP Code prior to the carriage of more than 12 industrial personnel on board.

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<sup>2</sup> Refer to the *Interim recommendations on the safe carriage of more than 12 industrial personnel on board vessels engaged on international voyages* (resolution MSC.418(97)).

5 For the purpose of this chapter, the expression *constructed* refers to the description given in regulations:

- .1 II-2/1.1.2.1, as complemented by regulation II-2/1.1.3 for cargo ships; and
- .2 X/1.4, as complemented by regulation X/1.5 for high-speed cargo craft.

### **Regulation 4 - Application of other chapters**

1 The regulations for cargo ships contained in the other chapters of the present Convention apply to ships described in regulation 3.1 above, except as modified by this chapter.

2 Notwithstanding the provisions of regulation 4.1 above, for high-speed craft to which the HSC Code applies, the regulations for cargo craft in that Code apply except as modified by this chapter.

### **Regulation 5 - Requirements**

- 1 Ships and high-speed craft to which this chapter applies shall:
  - .1 be certified as a cargo ship or high-speed cargo craft in accordance with either chapter I or chapter VIII or chapter X, as applicable;
  - .2 meet the requirements of the IP Code; and
  - .3 in addition to the requirements of regulations I/8, I/9 and I/10 or of sections 1.5 to 1.9 of the HSC Code, as applicable, be surveyed and certified, as provided for in the IP Code.
  
- 2 Ships and high-speed craft to which this chapter applies, holding a certificate issued pursuant to the provisions of regulation 5.1 above, shall be subject to the control established in regulation I/19 or XI-1/4, and in 1.10 of the HSC Code, as applicable. For this purpose, such certificates shall be treated as a certificate issued under regulation I/12 or I/13."

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**ANNEX 9**

**RESOLUTION MSC.527(106)  
(adopted on 10 November 2022)**

**INTERNATIONAL CODE OF SAFETY FOR SHIPS  
CARRYING INDUSTRIAL PERSONNEL (IP CODE)**

THE MARITIME SAFETY COMMITTEE,

RECALLING Article 28(b) of the Convention on the International Maritime Organization concerning the function of the Committee,

RECOGNIZING the need for a mandatory code for the safe carriage of industrial personnel on ships and for ensuring their safety during personnel transfer operations to and from other ships and/or offshore facilities,

NOTING resolution MSC.521(106), by which it adopted chapter XV of the International Convention for the Safety of Life at Sea, 1974 ("the Convention") to make the provisions of the International Code of Safety for Ships Carrying Industrial Personnel (IP Code) mandatory under the Convention,

HAVING CONSIDERED, at its 106th session, the IP Code,

- 1 ADOPTS the IP Code, the text of which is set out in the annex to the present resolution;
- 2 INVITES Contracting Governments to the Convention to note that the IP Code will take effect on 1 July 2024 upon entry into force of chapter XV of the Convention;
- 3 ALSO INVITES Contracting Governments to consider the voluntary application of the IP Code, as far as practicable, to ships of less than 500 gross tonnage and to ships not operating on international voyages;
- 4 REQUESTS the Secretary-General of the Organization to transmit certified copies of the present resolution and the text of the IP Code, contained in the annex, to all Contracting Governments to the Convention;
- 5 ALSO REQUESTS the Secretary-General of the Organization to transmit copies of the present resolution and the text of the IP Code contained in the annex to all Members of the Organization which are not Contracting Governments to the Convention.



ANNEX

**INTERNATIONAL CODE OF SAFETY FOR SHIPS  
CARRYING INDUSTRIAL PERSONNEL (IP CODE)**

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**Appendix**

**Model Industrial Personnel Safety Certificate  
Record of Equipment for the Industrial Personnel Safety Certificate (Form IP)**

## Preamble

1 As the maritime offshore and energy sectors are expanding, new offshore industrial activities have emerged. This in turn has created a growing demand to provide for the safe carriage of industrial personnel to and from other ships and/or offshore facilities.

2 It is recognized that the safety standards in the existing IMO instruments do not fully cover specific risks of maritime operations within the offshore sectors, such as personnel transfer operations.

3 Furthermore, it is recognized that, at the time of developing this Code, industrial personnel are a special category of persons yet to be defined in regulation I/2 of the International Convention for the Safety of Life at Sea (SOLAS), 1974.

4 However, the difficulties caused by the lack of a clear definition for industrial personnel and the lack of an international safety standard for the carriage of industrial personnel on board in the existing IMO instruments are also recognized.

5 The International Code of Safety for Ships Carrying Industrial Personnel (IP Code) has been developed to supplement existing IMO instruments in order to meet the demand from the offshore and energy sectors and overcome these difficulties. The Code, in addition to the cargo ship requirements in SOLAS regulations, provides an international standard of safety for ships carrying industrial personnel which will facilitate safe carriage and safe personnel transfer by addressing additional risks connected to such operations.

6 The Code has been developed for ships operating on international voyages as defined in SOLAS regulation I/2(d). However, it is recognized that the transport of a large number of industrial personnel will take place either within the confines of a particular coastal State or between a base port and an offshore installation outside territorial waters. To facilitate international movement and safe operations of ships carrying industrial personnel, Administrations are encouraged to apply this Code also to ships operating only on such voyages.

7 The Code applies to ships of 500 gross tonnage and upwards. However, it is recognized that ships below 500 gross tonnage may also carry an aggregated number of passengers, special personnel and industrial personnel in excess of 12. In such cases the Administration may apply the goals and functional requirements of the Code as far as practicable. If such ships are in compliance with the IP Code, Administrations may consider issuing an Industrial Personnel Safety Certificate for a ship carrying more than 12 industrial personnel, as long as all relaxations are indicated in this certificate.

## **PART I GENERAL**

### **1 Goal**

The goal of this Code is to provide for the safe carriage of industrial personnel on ships and their safety during personnel transfer operations by addressing any risks present not adequately mitigated by the applicable safety standards in the International Convention for the Safety of Life at Sea (SOLAS), 1974.

### **2 Definitions**

2.1 *Carriage* means transportation, accommodation or both.

2.2 *Essential systems* mean systems referred to in SOLAS regulation II-2/21.4.

2.3 *HSC Code* means the International Code of Safety for High-Speed Craft, 2000, as adopted by the Maritime Safety Committee of the Organization by resolution MSC.97(73), as amended.

2.4 *Industrial personnel (IP)* means all persons transported or accommodated on board for the purpose of offshore industrial activities performed on board other ships and/or offshore facilities.

2.5 *IP area* is every area or space where IP are normally intended to stay during voyage or are allowed to access.

2.6 *Offshore industrial activities* mean the construction, maintenance, decommissioning, operation or servicing of offshore facilities related, but not limited, to exploration and exploitation of resources by the renewable or hydrocarbon energy sectors, aquaculture, ocean mining or similar activities.

2.7 *Personnel transfer* means the full sequence of the operation of transferring personnel and their equipment at sea to or from a ship to which this Code applies and from or to another ship or an offshore facility.

2.8 *SOLAS* means the International Convention for the Safety of Life at Sea, 1974, as amended.

### **3 Certificate and survey**

3.1 Every ship to which this Code applies shall have on board a valid Industrial Personnel Safety Certificate.

3.2 The Industrial Personnel Safety Certificate shall be issued after an initial or renewal survey to a ship which complies with the requirements of this Code.

3.3 The certificate referred to in this regulation shall be issued either by the Administration or by an organization recognized by it in accordance with SOLAS regulation XI-1/1. In any case, the Administration assumes full responsibility for the certificate.

3.4 The Industrial Personnel Safety Certificate shall be drawn up in a form corresponding to the model given in the appendix to this Code. If the language is not English, French or Spanish, the text shall include translation into one of these languages.

3.5 The Industrial Personnel Safety Certificate validity, survey dates and endorsements shall be harmonized with the relevant SOLAS certificates in accordance with the provisions of SOLAS regulation I/14 or X/3.2, as appropriate. The certificate shall include a supplement recording equipment required by the present Code.

3.6 The Industrial Personnel Safety Certificate and the Record of Equipment shall be issued in addition to the relevant certificates required in SOLAS regulation XV/5.1.1.

## **PART II GOALS AND FUNCTIONAL REQUIREMENTS**

### **1 Industrial personnel**

#### **1.1 Goal**

The goal of this chapter is to provide:

- .1 for safe operations during the carriage of industrial personnel; and
- .2 that industrial personnel are medically fit and familiar with the hazards associated with the operational environment including the risks associated with personnel transfer operations.

#### **1.2 Functional requirements**

In order to achieve the goal set out in paragraph 1.1 above, the following functional requirements are embodied in the regulations in part III:

Means shall be provided to ensure that industrial personnel:

- .1 are medically fit;
- .2 are able to communicate with the ship's crew;
- .3 have received appropriate safety training;
- .4 have received onboard ship-specific safety familiarization; and
- .5 have received onboard familiarization with the ship's transfer arrangements and equipment.

### **2 Safe transfer of personnel**

#### **2.1 Goal**

The goal of this chapter is to provide for the safety of all persons involved in personnel transfer, including safe and suitable means of transfer and the capability of safely carrying out the operations connected to personnel transfer.

#### **2.2 Functional requirements**

In order to achieve the goal set out in paragraph 2.1 above, the following functional requirements are embodied in the regulations in part III:

2.2.1 Means shall be provided to avoid injuries during personnel transfer.

2.2.2 Arrangements for personnel transfer shall be:

- .1 designed, constructed and maintained to withstand the loads they are subjected to;
- .2 designed and engineered to fail to a safe condition in the event of a loss or reduction in their associated functionality; and
- .3 capable of safely returning persons in transfer to a safe location after loss of power.

2.2.3 Means for position keeping shall be provided and arranged in a manner that prevents accidents during transfer of personnel and is suitable for the mode of operation and interactions with other ships or offshore facilities.

2.2.4 Means shall be provided to ensure that the information on the number of industrial personnel on board and their identity is kept updated to assist in ensuring that the actual number of persons on board is known at all times.

### **3 Subdivision and stability**

#### **3.1 Goal**

The goal of this chapter is to provide for adequate stability of the ship, in both the intact and damaged conditions, taking into consideration the total number of persons on board.

#### **3.2 Functional requirement**

In order to achieve the goal set out in paragraph 3.1 above, the ship shall be designed with weathertight and watertight boundaries providing for an adequate stability standard, in both the intact and damaged conditions, taking into account the total number of persons on board. This functional requirement is embodied in the regulations in parts IV and V.

### **4 Machinery installations**

#### **4.1 Goal**

The goal of this chapter is to provide for machinery installations capable of delivering the required functionality to ensure safe navigation and safe carriage of persons on board both during normal operation and in any emergency situation, taking into account the total number of persons on board.

#### **4.2 Functional requirements**

In order to achieve the goal set out in paragraph 4.1 above, the following functional requirements are embodied in the regulations in parts IV and V:

- .1 where the capacity needed to ensure the required functionality of any machinery system is dependent on the number of persons on board (e.g. bilge pumping systems), necessary additional capacity shall be provided;
- .2 steering gear systems shall be capable of maintaining steerage after any incident affecting machinery installations; and

- .3 essential systems shall have the necessary redundancy or isolation, or a combination thereof, in order to ensure the capability of safely accommodating persons on board after any incident affecting machinery installations, taking into account the number of persons on board.

## **5 Electrical installations**

### **5.1 Goal**

The goal of this chapter is to provide for:

- .1 emergency sources of power capable of delivering the required functionality of essential systems in emergency situations, taking into account the total number of persons on board; and
- .2 protection of all persons on board from electrical hazards.

### **5.2 Functional requirements**

In order to achieve the goal set out in paragraph 5.1 above, the following functional requirements are embodied in the regulations in parts IV and V:

- .1 emergency power supply to essential systems shall have the necessary redundancy or isolation, or a combination thereof, to ensure the capability of safely accommodating persons on board after damage, taking into account the number of persons on board and the time for orderly evacuation; and
- .2 precautions against shock, fire and other hazards of electrical origin shall be provided.

## **6 Periodically unattended machinery spaces**

### **6.1 Goal**

The goal of this chapter is to ensure that, if and when a machinery space is periodically unattended, this does not impair the safety of the ship or the persons on board.

### **6.2 Functional requirements**

In order to achieve the goal set out in paragraph 6.1 above, the following functional requirements are embodied in the regulations in parts IV and V:

- .1 periodically unattended machinery spaces shall provide safe operations, taking into account the number of persons on board; and
- .2 a periodically unattended machinery space shall be equipped with additional controls, monitoring and alarm systems to provide safe operation, taking into account the number of persons on board, in order to achieve a safety equivalent to that of a normally attended machinery space.

## **7 Fire safety**

### **7.1 Goal**

The goal of this chapter is to fulfil the fire safety objectives of SOLAS or the basic fire safety principles of the HSC Code, taking into account the number of persons on board.

### **7.2 Functional requirement**

In order to achieve the goal set out in paragraph 7.1 above, the means to fulfil the fire safety functional requirements of SOLAS or the basic fire safety principles of the HSC Code, taking into account the number of persons on board, are embodied in the regulations in parts IV and V.

## **8 Life-saving appliances and arrangements**

### **8.1 Goal**

The goal of this chapter is to provide for appropriate and sufficient means to ensure safe abandonment of the ship and recovery of persons.

### **8.2 Functional requirements**

In order to achieve the goal set out in paragraph 8.1 above, the following functional requirements are embodied in the regulations in parts IV and V:

- .1 the capacity of the survival craft shall be sufficient to accommodate all persons on board;
- .2 appropriate and sufficient personal life-saving appliances shall be available for all persons on board;
- .3 sufficient space for assembling and mustering must be ensured;
- .4 onboard communication and alarm systems shall be provided to ensure emergency communication to all persons on board; and
- .5 means shall be provided to ensure the safe recovery of persons.

## **9 Dangerous goods**

### **9.1 Goal**

The goal of this chapter is to provide for the safe carriage of industrial personnel while transporting and handling dangerous goods on ships certified in accordance with this Code, taking into consideration the total number of persons on board.

### **9.2 Functional requirement**

In order to achieve the goal set out in paragraph 9.1 above, any hazard caused by the transportation and handling of dangerous goods shall be taken into account and the risk to all persons on board shall be minimized, having regard to the nature of the dangerous goods. This functional requirement is embodied in the regulations in parts IV and V.



## PART III REGULATIONS

### **Regulation 1 - *Industrial personnel***

1.1 In order to meet the functional requirements set out in paragraph II/1.2.1, all industrial personnel shall be at least 16 years of age and documentary evidence shall be made available to the master that they are physically and medically fit to fulfil all the requirements in this regulation, based on a standard acceptable to the Administration.

1.2 In order to meet the functional requirements set out in paragraph II/1.2.2, all industrial personnel shall demonstrate adequate knowledge of the working language on board in order to be able to communicate effectively and understand any instructions given by the ship's crew.

1.3 In order to meet the functional requirements set out in paragraph II/1.2.3, all industrial personnel shall, prior to boarding the ship, receive training or instruction with respect to:<sup>1</sup>

- .1 personal survival that includes:
  - .1 knowledge of emergency situations that may occur on board a ship;
  - .2 the use of personal life-saving equipment;
  - .3 safely entering the water from a height, and survival in the water; and
  - .4 boarding a survival craft from the ship and water while wearing a lifejacket;
- .2 fire safety that includes knowledge of the types of fire hazards on board ships and precautionary measures to be taken to prevent a fire; and
- .3 personal safety and social responsibilities that include:
  - .1 understanding the authority of the master or their representative on board;
  - .2 complying with instructions provided by the shipboard personnel; and
  - .3 understanding safety information symbols, signs and alarm signals found on board ships.

1.4 No industrial personnel shall be carried on board the ship unless the master has been provided with documentation confirming that such personnel have received the training or instructions required by this regulation.

1.5 In order to meet the functional requirement set out in paragraph II/1.2.4, all industrial personnel shall, prior to leaving port or immediately after boarding, receive onboard ship-specific safety familiarization that includes:

- .1 the layout of the ship;
- .2 the location of personal life-saving appliances, muster and embarkation stations, emergency escape routes and first aid stations;

- .3 the safety information, symbols, signs and alarms on board; and
- .4 action to be taken in the event of an alarm sounding or the declaration of an emergency.

1.6 In order to meet the functional requirement set out in paragraph II/1.2.5, all industrial personnel shall, prior to being transferred, receive familiarization in the ship's procedures, arrangements and any additional safety measures or equipment for the transfer of personnel to other ships and/or offshore facilities.

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<sup>1</sup> Personnel meeting the training requirements in paragraph 5.5 of the *Recommendations for the training and certification of personnel on mobile offshore units* (resolution A.1079(28)) or industrial training standards, such as those of the Global Wind Organization (GWO), Offshore Petroleum Industry Training Organization (OPITO) or Basic Offshore Safety Induction and Emergency Training (OPITO-accredited), may be considered as meeting the requirements of this section.

## **Regulation 2 - Safe transfer**

- 2.1 In order to meet the functional requirement in paragraph II/2.2.1, the following applies:
- .1 Personnel transfer appliances and arrangements shall be kept clean, properly maintained and regularly inspected to ensure that they are safe to use.
  - .2 The rigging and use of the personnel transfer arrangements shall be supervised by a responsible officer and operated by properly trained personnel. Safety procedures shall be established and followed by personnel engaged in rigging and operating any mechanical equipment.
  - .3 Means of communication shall be provided between the supervising responsible officer and the navigation bridge.
  - .4 All personnel transfer arrangements shall be permanently marked to enable identification of each appliance for the purposes of survey, inspection and record-keeping. A record of use and maintenance shall be kept on board the ship.
  - .5 Prior to commencing personnel transfer operations, the personnel transfer arrangements shall be checked to ensure they are functioning properly.
  - .6 Means shall be provided to ensure safe and unobstructed passage for industrial personnel between the personnel transfer arrangements and where they are being transported or accommodated on board.
  - .7 Lighting capable of being supplied by the emergency source of power shall be provided to illuminate the personnel transfer arrangements, the water below the transfer arrangements and the passage specified in sub-paragraph .6 above.
  - .8 The deck area for personnel transfer shall be designated and free from obstructions.

- .9 A job safety analysis shall be carried out when planning, and before executing, personnel transfer at sea. The analysis shall take into account environmental conditions, as well as operational and equipment limitations.
- .10 When planning personnel transfer, the guidance developed by the Organization<sup>2</sup> or other relevant guidance<sup>3</sup> acceptable to the Administration should be taken into account.

2.2 In order to meet the functional requirement in paragraph II/2.2.2, personnel transfer arrangements shall be designed, constructed, tested and installed in accordance with standards<sup>4</sup> acceptable to the Administration or requirements of a classification society which is recognized by the Administration in accordance with the provisions of SOLAS regulation XI-1/1.

2.3 In addition, the following applies:

- .1 The design of the personnel transfer arrangements shall be suitable for the arrangement on the ship.
- .2 An analysis shall be performed in order to evaluate failures in IP transfer arrangements and all its associated systems which might impair the availability of the transfer arrangements and/or endanger the safety of the persons involved.

The analysis<sup>5</sup> shall:

- .1 consider the effects of failure in all the equipment and systems due to single failure, fire in any space or flooding of any watertight compartment that could affect the availability of the transfer arrangements; and
- .2 provide solutions to ensure the availability of the IP transfer arrangements and the safety of all persons involved upon such failures identified in .1.
- .3 Where a single failure results in failure of more than one component in a system (common cause failure), all the resulting failures shall be considered together. Where the occurrence of a failure leads directly to further failures, all those failures shall be considered together.

2.4 In order to meet the functional requirement in paragraph II/2.2.3, the manoeuvrability of the ship together with the expected need for the ship to keep position over time shall be evaluated, to ensure the correct use of position-keeping equipment.

2.5 In order to meet the functional requirement in paragraph II/2.2.4, procedures shall be in place to ensure correct information on the number and identity of personnel on board at all times.

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<sup>2</sup> Refer to the *Guidance on safety when transferring persons at sea* (MSC-MEPC.7/Circ.10).

<sup>3</sup> Such as the latest revision of IMCA M202 Guidance on the transfer of personnel to/from offshore vessels and structures.

<sup>4</sup> Refer to relevant sections of EN 13852-1:2013.

<sup>5</sup> Appropriate analysis may be QFA or FMEA and their associated reports.

**PART IV**  
**ADDITIONAL REGULATIONS FOR SHIPS CERTIFIED IN ACCORDANCE**  
**WITH SOLAS CHAPTER I**

**Regulation 1 - General**

1.1 Unless expressly provided otherwise in this part, ships carrying industrial personnel shall meet the SOLAS requirements for cargo ships and the applicable regulations in this part.

1.2 Ships complying with paragraph 1.1 in addition to the applicable regulations in this part are considered to meet the goals and functional requirements in paragraphs II/3 to II/9.

**Regulation 2 - Subdivision and stability**

2.1 In order to meet the functional requirement set out in paragraph II/3.2.1, the following applies:

- .1 Where the ship is certified to carry more than 240 persons on board, it shall meet the requirements of SOLAS regulation II-1/5 as though the ship is a passenger ship and the industrial personnel are counted as passengers. However, SOLAS regulation II-1/5.5 is not applicable.
- .2 Subdivision and damage stability shall be in accordance with SOLAS chapter II-1, where the ship is considered a passenger ship and industrial personnel are counted as passengers, with the value  $R$  as follows:
  - .1 where the ship is certified to carry more than 240 persons, the value  $R$  is assigned as  $R$ ;
  - .2 where the ship is certified to carry not more than 60 persons, the value  $R$  is assigned as  $0.8R$ ; or
  - .3 for more than 60 persons, but not more than 240 persons, the value  $R$  shall be determined by linear interpolation between the values given in sub-paragraphs .1 and .2 above.

$$R = 1 - \frac{5,000}{L_s + 2.5N + 15,225}$$

Where:

$$N = N_1 + 2N_2$$

$N_1$  = number of persons for whom lifeboats are provided

$N_2$  = number of persons (including officers and crew) the ship is permitted to carry in excess of  $N_1$

- .3 Where the conditions of service are such that compliance with paragraph 2.1.2 above on the basis of  $N=N_1+2N_2$  is impracticable and where the Administration considers that a suitably reduced degree of hazard exists, a lesser value of  $N$  may be taken but in no case less than  $N=N_1+N_2$ .

- .4 For ships to which paragraph 2.1.2.1 above applies, the requirements of SOLAS regulations II-1/8 and II-1/8-1 and of SOLAS chapter II-1 parts B-2, B-3 and B-4 shall be applied as though the ship is a passenger ship and the industrial personnel are passengers. However, SOLAS regulations II-1/14 and II-1/18 are not applicable.
- .5 For ships to which paragraphs 2.1.2.2 and 2.1.2.3 above apply, except as provided in paragraph 2.1.6 below, the provisions of SOLAS chapter II-1, parts B-2, B-3 and B-4 shall apply as though the ship is a cargo ship and the industrial personnel are crew. However, the requirements of SOLAS regulations II-1/8 and II-1/8-1 need not be applied and SOLAS regulations II-1/14 and II-1/18 are not applicable.
- .6 All ships certified in accordance with this Code shall comply with SOLAS regulations II-1/9, II-1/13, II-1/19, II-1/20 and II-1/21 as though the ship is a passenger ship.

### **Regulation 3 - *Machinery installations***

3.1 In order to meet the functional requirement set out in paragraph II/4.2.1, the ship shall comply with SOLAS regulation II-1/35-1 as though the ship is a passenger ship.

3.2 In order to meet the functional requirement set out in paragraph II/4.2.2, where the ship is certified to carry more than 240 persons on board, it shall comply with the requirements of SOLAS regulation II-1/29 as though the ship is a passenger ship.

### **Regulation 4 - *Electrical installations***

4.1 In order to meet the functional requirement set out in paragraph II/5.2.1, the following applies:

- .1 for installations in ships of more than 50 m in length carrying not more than 60 persons on board, the requirements in SOLAS regulation II-1/42.2.6.1 shall apply in addition to the requirements in SOLAS regulation II-1/43; and
- .2 for installations in ships carrying more than 60 persons on board, SOLAS regulation II-1/42 shall apply.

4.2 In order to meet the functional requirement set out in paragraph II/5.2.2 for installations on ships carrying more than 60 persons on board, SOLAS regulation II-1/45.12 shall apply.

### **Regulation 5 - *Periodically unattended machinery spaces***

In order to meet the functional requirements set out in paragraph II/6.2, ships carrying more than 240 persons on board shall be considered as passenger ships in relation to SOLAS chapter II-1, part E.

### **Regulation 6 - *Fire safety***

In order to meet the functional requirements set out in paragraphs II/7.2 and 4.2.3, the following applies:

- .1 where the ship is certified to carry more than 240 persons on board, the requirements of SOLAS chapter II-2 for passenger ships carrying more than 36 passengers shall apply; and
- .2 where the ship is certified to carry more than 60, but not more than 240 persons on board, the requirements of SOLAS chapter II-2 for passenger ships carrying not more than 36 passengers apply, except that SOLAS regulations II-2/21 and 22 need not apply.

### **Regulation 7 - *Life-saving appliances and arrangements***

In order to meet the functional requirements set out in paragraph II/8.2:

- .1 for ships carrying more than 60 persons on board, the requirements of SOLAS chapter III for passenger ships engaged on international voyages, which are not short international voyages, shall apply;
- .2 regardless of the number of the persons on board, SOLAS regulations III/2 and III/19.2.3 are not applicable;
- .3 where the term "passenger" is used in SOLAS chapter III, it shall be read to mean industrial personnel as prescribed in SOLAS regulation XV/2.3; and
- .4 notwithstanding sub-paragraph .3 above, the required number of infant or child lifejackets shall be calculated solely based on the number of passengers on board.

### **Regulation 8 - *Dangerous goods***

#### **8.1 General**

Industrial personnel may only bring dangerous goods on board for the purpose of their role off the ship and with the prior consent of the master of the ship. These dangerous goods shall be considered as cargo and shall be transported in accordance with part A of SOLAS chapter VII.

#### **8.2 Carriage of dangerous goods in packaged form**

In order to meet the functional requirements in paragraph II/9.2:

- .1 for ships certified to carry more than 240 persons on board, SOLAS regulation II-2/19.3.6.2 for passenger ships carrying more than 36 passengers shall apply; and
- .2 for the purpose of the requirements of the IMDG Code, ships certified to carry more than 240 persons on board shall be considered as passenger ships and those certified to carry 240 or fewer persons on board shall be considered as cargo ships.

### **8.3 Carriage of dangerous goods in solid form in bulk**

In order to meet the functional requirements in paragraph II/9.2:

- .1 for ships certified to carry more than 240 persons on board, SOLAS regulation II-2/19.3.6.2 for passenger ships carrying more than 36 passengers shall apply; and
- .2 for the purpose of the requirements of the IMSBC Code, industrial personnel shall be considered as personnel in the context of personnel protection.

### **8.4 Carriage of dangerous liquid chemicals, liquefied gases and oil**

8.4.1 In order to meet the functional requirements in paragraph II/9.2, when simultaneously carrying dangerous liquid chemicals and/or liquefied gases as cargo in bulk and industrial personnel, the ship shall either be certified in accordance with the requirements of parts B or C of SOLAS chapter VII or meet and be certified in accordance with a standard not inferior to that developed by the Organization.<sup>6</sup> In addition:

- .1 carriage of toxic products, low-flashpoint products or acids shall not be allowed when the total number of persons on board exceeds 60;
- .2 for the purpose of carrying industrial personnel, the areas and spaces on ships where industrial personnel are not permitted to enter shall be clearly marked;
- .3 the arrangements for personnel transfer shall be located outside the cargo area;
- .4 the access to the arrangements for personnel transfer shall, as far as practicable, be located outside the cargo area; and
- .5 embarkation or personnel transfer and loading or unloading of cargo shall not take place simultaneously.

8.4.2 In order to meet the functional requirements in paragraph II/9.2, when simultaneously carrying oil as cargo, as defined in Annex I of MARPOL, and industrial personnel, the additional requirements in paragraph 8.4.1 above shall apply.

8.4.3 For the purpose of this requirement:

- .1 "low-flashpoint products" mean:
  - .1 noxious liquid substances with a flashpoint not exceeding 60°C;
  - .2 oil with a flashpoint not exceeding 60°C; and
  - .3 liquefied gases which require flammable vapour detection in accordance with chapter 19 of the IGC Code;
- .2 "toxic products" mean:
  - .1 dangerous chemicals to which special requirement 15.12 of the IBC Code applies; and

- .2 liquefied gases which require toxic vapour detection in accordance with chapter 19 of the IGC Code; and
- .3 "acids" mean dangerous chemicals to which special requirement 15.11 of the IBC Code applies.

8.4.4 In order to meet the functional requirements in paragraph II/9.2 when carrying liquefied gases in bulk, for the purpose of the requirements of the IGC Code, industrial personnel shall be considered as personnel in the context of training and personnel protection.

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<sup>6</sup> Refer to the *Code for the Transport and Handling of Hazardous and Noxious Liquid Substances in Bulk on Offshore Support Vessels (OSV Chemical Code)* (resolution A.1122(30)).

## **PART V ADDITIONAL REGULATIONS FOR CRAFT CERTIFIED IN ACCORDANCE WITH SOLAS CHAPTER X**

### **Regulation 1 - *General***

1.1 High-speed cargo craft certified in accordance with SOLAS chapter X shall not carry more than 60 persons on board.

1.2 Unless expressly provided otherwise in this part, high-speed craft carrying not more than 60 persons on board shall meet the requirements for cargo craft in the HSC Code and the applicable regulations in this part.

1.3 Craft complying with paragraph 1.2 above in addition to the applicable regulations in this part are considered to meet the goals and functional requirements in paragraphs II/3 to II/9.

1.4 The carriage of IP on high-speed craft is not considered as transit voyage, as specified in 1.9.1.1 of the HSC Code, and a permit to operate is required.

1.5 Where the term "passenger" is used in applicable requirements in the HSC Code, it shall be read to mean "persons on board other than crew".

### **Regulation 2 - *Subdivision and stability***

In order to meet the functional requirements set out in paragraph II/3.2, the following applies:

- .1 Chapter 2, part B, except 2.13.2 and 2.14, of the HSC Code shall apply in lieu of chapter 2, part C of the HSC Code.
- .2 When applying the provisions of chapter 2 of the HSC Code, the expression "passenger" shall be read as "persons on board other than crew". In addition, the mass of each such person shall be assumed to be 90 kg instead of 75 kg.

### **Regulation 3 - *Machinery installations***

In order to meet the functional requirements set out in paragraph II/4.2, provisions in chapter 10, part B of the HSC Code shall apply as applicable to category A passenger craft in lieu of chapter 10, part C of the HSC Code.



#### **Regulation 4 - *Electrical installations***

In order to meet the functional requirements set out in paragraph II/5.2, 12.7.10 of the HSC Code shall apply.

#### **Regulation 5 - *Periodically unattended machinery spaces***

*[no provisions]*

#### **Regulation 6 - *Fire safety***

*[no provisions]*

#### **Regulation 7 - *Life-saving appliances and arrangements***

In order to meet the functional requirements set out in paragraph II/8.2:

- .1 4.2.3 of the HSC Code shall apply;
- .2 8.4.3 of the HSC Code shall apply – the expression "passenger spaces" shall be read as "IP area"; and
- .3 the required number of infant or child lifejackets shall be calculated solely based on the number of passengers on board.

#### **Regulation 8 - *Dangerous goods***

8.1 Industrial personnel may only bring dangerous goods on board for the purpose of their role off the craft and with the prior consent of the master of the craft. These dangerous goods shall be considered as cargo and shall be transported in accordance with chapter 7, part D of the HSC Code.

8.2 In order to meet the functional requirements set out in paragraph II/9.2:

- .1 for the purpose of carrying IP, the areas and spaces on craft where IP are not permitted to enter shall be clearly marked;
- .2 the arrangement for personnel transfer shall be located outside the cargo area;
- .3 the access to the arrangements for personnel transfer shall, as far as practicable, be located outside the cargo area; and
- .4 embarkation or personnel transfer and loading or unloading of cargo shall not take place simultaneously.

**APPENDIX**

**FORM OF SAFETY CERTIFICATE FOR SHIPS CARRYING INDUSTRIAL PERSONNEL**

**INDUSTRIAL PERSONNEL SAFETY CERTIFICATE**

This Certificate shall be supplemented by a Record of Equipment for the  
Industrial Personnel Safety Certificate (Form IP)

(Official seal)

(State)

Issued under the provisions of the

International Convention for the Safety of Life at Sea, 1974, as amended

under the authority of the Government of

*(name of the State)*

by \_\_\_\_\_  
*(person or organization authorized)*

Particulars of ship<sup>7</sup>

Name of ship .....

Distinctive number or letters .....

Port of registry .....

Gross tonnage .....

IMO number<sup>8</sup> .....

Date [dd/mm/yyyy] on which keel was laid or ship was at a similar  
stage of construction or, where applicable, date on  
which work for a conversion or an alteration or  
modification of a major character was commenced .....

<sup>7</sup> Alternatively, the particulars of the ship may be placed horizontally in boxes.

<sup>8</sup> In accordance with the *IMO Ship Identification Number Scheme* adopted by the Organization by resolution A.1117(30).

THIS IS TO CERTIFY:

1  *check box, if applicable*

That the ship has been surveyed in accordance with the provisions of section I/3 of the International Code of Safety for Ships Carrying Industrial Personnel as a ship to which regulations XV/3.1 or 3.4 of the Convention apply.

- .1 That the survey showed that:
  - .1 the structure, equipment, fittings and materials of the ship and the condition thereof are in all respects satisfactory and that the ship complies with the relevant provisions of the Code; and
  - .2 if fitted, the personnel transfer appliances and arrangement and the condition thereof are in all respects satisfactory and comply with the provisions of regulation III/2 of the Code.

2  *check box, if applicable*

That the ship has been surveyed in accordance with the provisions of section I/3 of the International Code of Safety for Ships Carrying Industrial Personnel as a ship to which regulations XV/3.2 or XV/3.3 of the Convention apply.

- .1 That the survey showed that:
  - .1 the life-saving appliances and the equipment of the lifeboats, liferafts and rescue boats were provided in accordance with regulation IV/7 or V/7 of the Code, as applicable;
  - .2 the ship, if permitted to carry dangerous goods, complies with the relevant provisions of regulation IV/8 or V/8 of the Code, as applicable; and
  - .3 if fitted, the personnel transfer appliances and arrangement and the condition thereof are in all respects satisfactory and comply with the provisions of regulation III/2 (except for paragraph 2.1.7) of the Code.

3 This certificate is not valid for the carriage of toxic products, low-flashpoint products or acids when the total number of persons on board exceeds 60.

This certificate is valid until .....

Completion date of the survey on which this certificate is based (dd/mm/yyyy):  
.....

Issued at .....  
(Place of issue of certificate)

.....  
(Date of issue)

(Signature of authorized official  
issuing the certificate)

(Seal or stamp of the issuing authority, as appropriate)



**ENDORSEMENT TO EXTEND THE CERTIFICATE IF VALID FOR LESS THAN FIVE YEARS WHERE REGULATION I/14(C) OF THE CONVENTION OR 1.8.8 OF THE 2000 HSC CODE APPLIES**

The ship complies with the relevant requirements of the Convention, and this certificate shall, in accordance with regulation I/14(c) of the Convention\* or 1.8.8 of the 2000 HSC Code,\* be accepted as valid until.....

Signed: .....  
(Signature of authorized official)

Place: .....

Date: .....  
(Seal or stamp of the authority, as appropriate)

**ENDORSEMENT WHERE THE RENEWAL SURVEY HAS BEEN COMPLETED AND REGULATION I/14(D) OF THE CONVENTION OR 1.8.9 OF THE 2000 HSC CODE APPLIES**

The ship complies with the relevant requirements of the Convention, and this certificate shall, in accordance with regulation I/14(d) of the Convention\* or 1.8.9 of the 2000 HSC Code,\* be accepted as valid until.....

Signed: .....  
(Signature of authorized official)

Place: .....

Date: .....  
(Seal or stamp of the authority, as appropriate)

**ENDORSEMENT TO EXTEND THE VALIDITY OF THE CERTIFICATE UNTIL REACHING THE PORT OF SURVEY OR FOR A PERIOD OF GRACE WHERE REGULATION I/14(E) OR I/14(F) OF THE CONVENTION OR 1.8.10 OF THE 2000 HSC CODE APPLIES**

This certificate shall, in accordance with regulation I/14(e)/I/14(f)\* of the Convention or 1.8.10 of the 2000 HSC Code,\* be accepted as valid until.....

Signed: .....  
(Signature of authorized official)

Place: .....

Date: .....  
(Seal or stamp of the authority, as appropriate)

\*Delete as appropriate.

**ENDORSEMENT FOR ADVANCEMENT OF ANNIVERSARY DATE WHERE  
REGULATION I/14(H) OF THE CONVENTION OR 1.8.12 OF THE 2000 HSC CODE  
APPLIES**

In accordance with regulation I/14(h) of the Convention\* or 1.8.12 of the 2000 HSC Code,\* the  
new anniversary date is .....

Signed: .....  
(Signature of authorized official)

Place: .....

Date: .....  
(Seal or stamp of the authority, as appropriate)

In accordance with regulation I/14(h) of the Convention\* or 1.8.12 of the 2000 HSC Code,\* the  
new anniversary date is .....

Signed: .....  
(Signature of authorized official)

Place: .....

Date: .....  
(Seal or stamp of the authority, as appropriate)

\*Delete as appropriate.

**Record of Equipment for the Industrial Personnel Safety Certificate  
(Form IP)**

This Record should be permanently attached to the  
Industrial Personnel Safety Certificate

**RECORD OF EQUIPMENT FOR COMPLIANCE WITH THE  
INTERNATIONAL CODE OF SAFETY FOR SHIPS CARRYING  
INDUSTRIAL PERSONNEL**

**1 Particulars of ship**

Name of ship .....

Distinctive number or letters .....

Total number of persons on board  
for which certified .....

**2 Details of life-saving appliances**

1	Total number of persons for which life-saving appliances are provided	.....	
		Port side	Starboard side
2	Total number of lifeboats	.....	.....
2.1	Total number of persons accommodated by them	.....	.....
2.2	Number of partially enclosed lifeboats (SOLAS regulation III/21 or III/31, or 8.10 of the HSC Code, as applicable, and LSA Code, section 4.5)	.....	.....
2.3	Number of self-righting partially enclosed lifeboats (SOLAS regulation III/21 or III/31, or 8.10 of the HSC Code, as applicable, and LSA Code, section 4.5)	.....	.....
2.4	Number of totally enclosed lifeboats (SOLAS regulation III/21 or III/31, or 8.10 of the HSC Code, as applicable, and LSA Code, sections 4.6)	.....	.....
2.5	Other lifeboats	.....	.....
2.5.1	Number	.....	.....
2.5.2	Type	.....	.....

3	Number of motor lifeboats (included in the total lifeboats shown above)	.....
3.1	Number of lifeboats fitted with searchlights	.....
4	Number of rescue boats	.....
4.1	Number of boats which are included in the total lifeboats shown above	.....
5	Liferafts	.....
5.1	Those for which approved launching appliances are required	.....
5.1.1	Number of liferafts	.....
5.1.2	Number of persons accommodated by them	.....
5.2	Those for which approved launching appliances are not required	.....
5.2.1	Number of liferafts	.....
5.2.2	Number of persons accommodated by them	.....
6	Number of marine evacuation systems (MES)	.....
6.1	Persons accommodated by them	.....
7	Buoyant apparatus	.....
7.1	Number of apparatuses	.....
7.2	Number of persons capable of being supported	.....
8	Number of lifebuoys	.....
9	Number of lifejackets (total)	.....
9.1	Number of adult lifejackets	.....
9.2	Number of child lifejackets	.....
9.3	Number of infant lifejackets	.....
10	Immersion suits	.....
10.1	Total number	.....
11	Number of thermal protective aids <sup>9</sup>	.....

THIS IS TO CERTIFY that this Record is correct in all respects.

Issued at .....  
(Place of issue of the Record)

.....  
(Date of issue)

(Signature of duly authorized official  
issuing the Record)

(Seal or stamp of the issuing authority, as appropriate)

<sup>9</sup> Excluding those required by the LSA Code, paragraphs 4.1.5.1.24, 4.4.8.31 and 5.1.2.2.13.

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**ANNEX 11**

**RESOLUTION MSC.418(97)  
(adopted on 25 November 2016)**

**INTERIM RECOMMENDATIONS ON THE SAFE CARRIAGE OF MORE  
THAN 12 INDUSTRIAL PERSONNEL ON BOARD VESSELS  
ENGAGED ON INTERNATIONAL VOYAGES**

THE MARITIME SAFETY COMMITTEE,

RECALLING Article 28(b) of the Convention on the International Maritime Organization concerning the functions of the Committee,

RECOGNIZING that increasing numbers of offshore projects and innovations are creating new and growing demand for the carriage of industrial personnel to and from offshore facilities and/or other ships,

RECOGNIZING ALSO that, with regard to offshore wind farm service vessels for the carriage of construction and maintenance personnel, difficulties are reported caused by the lack of a clear definition for industrial personnel and the lack of legally binding international safety standards for the carriage of more than 12 industrial personnel on board in the existing instruments,

RECOGNIZING FURTHER that the International Convention for the Safety of Life at Sea (SOLAS), 1974, as amended, currently does not define industrial personnel and that an interim solution is urgently required,

NOTING that the Maritime Safety Committee, at its ninety-sixth session, decided to develop a mandatory instrument for the carriage of industrial personnel so that such personnel should not be considered or treated as passengers under SOLAS regulation I/2(e),

RECOGNIZING the urgent need for Member States to ensure the safe carriage of more than 12 industrial personnel on board vessels engaged on international voyages while the mandatory instrument is developed by the Organization,

HAVING CONSIDERED, at its ninety-seventh session, the *Interim Recommendations on the safe carriage of more than 12 industrial personnel on board vessels engaged on international voyages*,

1 ADOPTS the *Interim Recommendations on the safe carriage of more than 12 industrial personnel on board vessels engaged on international voyages*, the text of which is set out in the annex to the present resolution;

2 INVITES Member States, until such time that the mandatory instrument for the carriage of industrial personnel enters into force, to:

- .1 note that industrial personnel should not be considered or treated as passengers under SOLAS regulation I/2(e); and
- .2 apply the annexed Interim Recommendations when regulating ships, regardless of size, carrying more than 12 industrial personnel.

3 INVITES ALSO Member States to bring this to the attention of all parties concerned.

ANNEX

**INTERIM RECOMMENDATIONS ON THE SAFE CARRIAGE OF MORE  
THAN 12 INDUSTRIAL PERSONNEL ON BOARD VESSELS  
ENGAGED ON INTERNATIONAL VOYAGES**

1 For the purposes of these Interim Recommendations, *industrial personnel* means all persons who are transported or accommodated on board for the purpose of offshore industrial activities performed on board other vessels and/or other offshore facilities and meet the criteria set out below.

2 Such industrial personnel should not be considered or treated as passengers under SOLAS regulation I/2(e).

3 *Offshore industrial activities* are the construction, maintenance, operation or servicing of offshore facilities related, but not limited, to exploration, the renewable or hydrocarbon energy sectors, aquaculture, ocean mining or similar activities.

4 For the purpose of these Interim Recommendations, all industrial personnel should:

- .1 be not less than 16 years of age;
- .2 prior to boarding the ship, receive appropriate safety training, meeting the standard in paragraph 2.1 of section A-VI/1 of the STCW Code. Administrations may accept other industrial training standards such as those of the Global Wind Organisation (GWO), Offshore Petroleum Industry Training Organisation (OPITO), Basic Offshore Safety Induction and Emergency Training (OPITO accredited), if they consider these appropriate alternatives;
- .3 receive on board ship specific safety familiarization that includes, but is not limited to, the layout of the ship, and handling of the safety equipment, as appropriate. The standard in paragraph 1 of section A-VI/1 of the STCW Code, or equivalent, should be used as the standard;
- .4 be familiarized with specific procedures, e.g. transfer procedures on and off the ship while at sea, as appropriate;
- .5.1 be accounted for in the ship's life-saving equipment; and
- .5.2 be equipped with personal protective clothing and equipment suitable for the safety risks to be encountered both while on board the ship and being transferred at sea; and
- .6 meet appropriate medical standards. The standard in section A-I/9 of the STCW Code, applicable to engineers, or equivalent, may be used as a standard.

5 IMO guidance (MSC-MEPC.7/Circ.10) or relevant industry standards should be taken into account, to the extent possible, when transferring industrial personnel at sea.

6 Industrial personnel may be carried on board ships meeting the provisions of the 2008 SPS Code or other standards, providing they meet an equivalent level of safety acceptable to the Administration, taking into consideration the number of persons on board.

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