



Maritime &
Coastguard
Agency

Consultation Document:

MSN 1870 (M+F) Amendment 4

The Merchant Shipping and Fishing Vessels
(Personal Protective Equipment) Regulations
1999

September 2022

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Section 1: Overview of this consultation

Aim

- 1.1. This consultation seeks your views on the standards applicable to the types of Personal Protective Equipment (PPE) required to perform work activities on board ship. Industry input on this topic will support the Maritime and Coastguard Agency (MCA) to provide the most relevant guidance.

Views sought

- 1.2. Your views are sought in the following areas:
- frequency of updating MSN 1870 Annex 1

- types of personal protective equipment required on board ship
- the current official standards for the type of personal protective equipment

1.3. A full list of consultation questions is contained in Section 5 of this consultation.

Deadline for responses

1.4. Responses are welcomed from 05/09/2022 until 25/11/2022.

Section 2: Areas for consideration

Background

- 2.1 The Merchant Shipping and Fishing Vessels (Personal Protective Equipment) Regulations 1999 (S.I. 1999/2205) (“the PPE Regulations”) outline the requirements for Personal Protective Equipment (“PPE”) on board ships. The Merchant Shipping (Maritime Labour Convention) (Health and Safety) (Amendment) Regulations 2014, regulation 13A extended the duties to protect “workers” in health and safety legislation, including the PPE regulations, so that they protect all seafarers, regardless of their employment status, and extended the duties on employers to also apply to shipowners. On 31 December 2018 the Merchant Shipping (Work in Fishing Convention) (Consequential Provisions) Regulations 2018 came into force and further extended the protection of health and safety legislation to fishermen regardless of their employment status and applied the duties on employers also to fishing vessel owners. References to “shipowners and employers” and “seafarers and other workers” therefore include fishing vessel owners and fishermen.
- 2.2 The PPE Regulations reference the MSN for suitable standards of Personal Protective Equipment (PPE) for particular work activities. Annex 1 of MSN 1870 (M+F) provides a list of PPE and the current official standards of that equipment. The notice is updated yearly and consulted on periodically to ensure its accuracy and to make sure it covers relevant personal protective equipment, aligned with current working practices on board ships and fishing vessels.

Proposed Changes

- 2.3 A draft of MSN 1870 (M+F) amendment 4 can be found as Annex 1 of this consultation document and has been updated to reflect current official references and guidance. Amended official references have been highlighted.
- 2.4 The draft MSN also includes amendments to reflect the new United Kingdom Conformity Assessment (UKCA) marking, following exit of the UK from the EU. The PPE Regulations are retained EU legislation in UK law following the exit of the UK from the EU but the updating of PPE standards since the UK’s departure will now fall under national conformity assessment arrangements. As shipowners and employers, this will mean that new PPE manufactured for the UK market will have a UKCA marking instead of, or as well as, a CE marking. Shipowners and employers must continue to ensure that equipment meets appropriate standards. Given the international nature of

shipping, reference to a UKCA or CE marking shall include the marking for an alternative standard which provides, in use, equivalent levels of safety, suitability and fitness for purpose.

Summary of Options and Recommendations

- 2.6 We propose to continue with the yearly updates to MSN 1870 (M+F). As noted with the changes highlighted, references do not alter frequently but we wish to ensure the notice is updated at least once per year. (See consultation question 1). We propose to carry out public consultation every 3 years.
- 2.7 Details received recommending inclusion of other PPE (along with their official numbers and purpose) will be considered by policy leads and form part of the outcome from this consultation. (See consultation question 2)
- 2.8 Where official references are considered inaccurate in the draft MSN 1870 (M+F) amendment 4, we will review and consider with policy leads any proposed alterations. (See question 3)

Supporting Information

- [The Merchant Shipping \(Maritime Labour Convention\) \(Health and Safety\) \(Amendment\) Regulations 2014, regulation 13A](#)
- The Merchant Shipping and Fishing Vessels (Personal Protective Equipment) Regulations 1999 ([“the PPE Regulations”](#))
- [\(Personal protective equipment at work \(amendment\) regulations 2022 \(PPER 2022\)\)](#)

Section 3: Responding to this consultation

- 3.1. There are specific questions highlighted in section 5 of this document and information on how to respond to this consultation document.

Consultees

- 3.2. Anyone may respond to this consultation and consideration will be given to all responses.

Duration

- 3.3. This consultation is open for 12 weeks from 5th September. The deadline for responses is 25th November 2022.

Submitting your response

- 3.4. The preference is for consultation responses to be emailed to seafarersafety@mcga.gov.uk. Any questions should also be sent to this email address. You can also send in your response by post.
- 3.5. When responding, representative groups are asked to give a summary of the people and organisations they represent, and where relevant who else they have consulted in reaching their conclusions.

Freedom of Information

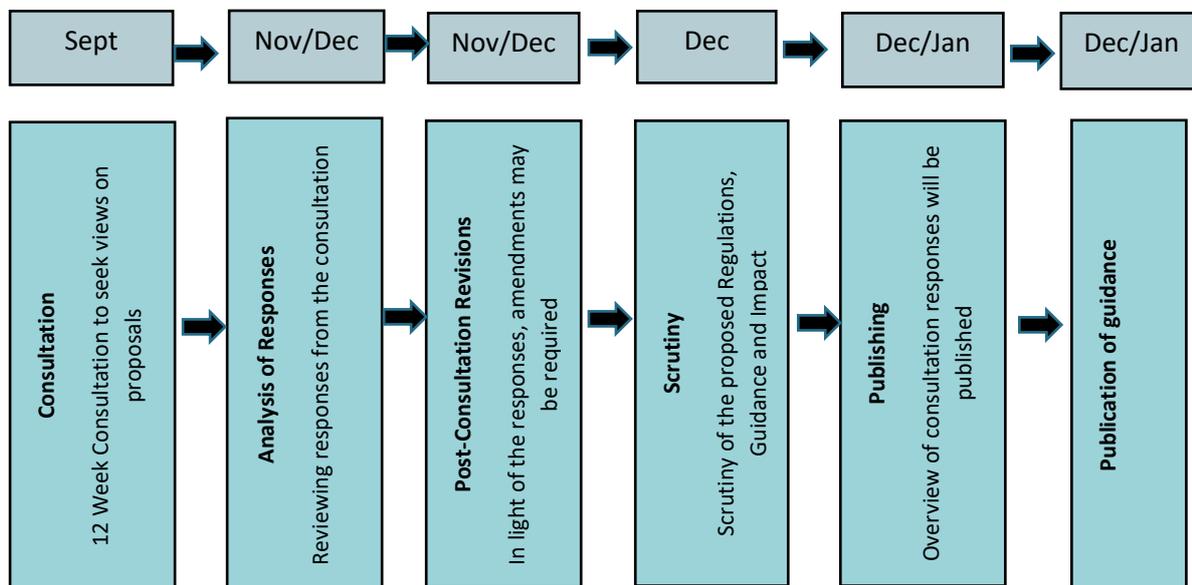
- 3.6. Information provided in response to this consultation, including personal information, may be subject to publication or disclosure in accordance with the Freedom of Information Act 2000 (FOIA) or the Environmental Information Regulations 2004.
- 3.7. If you want the information that you provide to be treated as confidential, please be aware that, under the FOIA, there is a statutory Code of Practice with which public authorities must comply and which deals, amongst other things, with obligations of confidence.
- 3.8. In view of this it would be helpful if you could explain to us why you regard the information you have provided as confidential. If we receive a request for disclosure of the information, we will take full account of your explanation, but we cannot give an assurance that confidentiality can be maintained in all circumstances. An automatic confidentiality disclaimer generated by your IT system will not, of itself, be regarded as binding on the Department/MCA.
- 3.9. The MCA will process your personal data in accordance with the data protection framework and, in the majority of circumstances, this will mean that your personal data will not be disclosed to third parties.

Data Protection

- 3.10. The MCA is carrying out this consultation to gather evidence to inform the development and implementation of policy. This consultation and the processing of personal data that it entails is necessary for the exercise of our functions as a government department. If your answers contain information that allows you to be identified, under data protection law, the MCA, as an Executive Agency of the Department for Transport, will be the Controller for this information.
- 3.11. The MCA will use your contact details to send you information about the consultation, for example if we need to ask follow-up questions. You do not have to give us this personal information but if you do choose to provide it, it will not be used for any other purpose without your permission.
- 3.12. Details about how the MCA looks after personal data, your rights, how to complain, and how to contact our Data Protection Manager can be found on gov.uk at:
<https://www.gov.uk/government/organisations/maritime-and-coastguard-agency/about/personal-information-charter>
- 3.13. Your information will be kept securely on the MCA's IT system and any written responses will be held in a secure file and cabinet and kept for up to five years.
- 3.14. If you do not wish to remain on this list, please let us know at seafarersafety@mcga.gov.uk

Section 4: Outline of plans beyond this consultation

- 4.1. Once this consultation closes, we will review all responses. In considering the responses we will apply appropriate weight to those from organisations and individuals with specialist knowledge of the subject area.
- 4.2. We will be analysing the responses during the autumn. Our aim is to publish an overview of the responses and the MCA's comments January 2023, which will be available on www.gov.uk along with the consultation.
- 4.3. Where appropriate the draft guidance will be revised to take into consideration the consultation responses.
- 4.4. Our aim is for the revised MSN 1870 (M+F) amendment 4 to be published on www.gov.uk by 31st December 2022/ January 2023.
- 4.5. An overview timetable is below for reference:



Section 5: Response form

What is your name? _____

What is your email address? _____

What is your job title? _____

When responding please state whether you are responding as an individual or representing the views of an organisation:

- I am responding as an individual
- I am responding on behalf of an organisation

(name of organisation) _____

Please check the box that best describes you as a respondent and the size of your organisation:

Respondent Type

- Classification Society
- Government Agency/Department
- Individual
- Legal representative
- Protection & Indemnity
- Seafarer
- Ship Operator
- Ship Owner
- Trade Union
- Other

(please describe) _____

Size of Organisation

- Large business (over 250 staff)
- Medium business (50 to 250 staff)
- Micro business (up to 9 staff)
- Small business (10 to 49 staff)

Section 5.1 Consultation Questions

1. How often do you feel is appropriate frequency in updating MSN 1870 to provide guidance on the standards?
2. Are there any types of personal protective equipment required on board ship that are not covered in MSN 1870?
3. Do you have any comments on the standards provided for personal protective equipment in MSN 1870?
4. Please review draft MSN 1870 Amendment 4 PPE which reflects changes and recommendations at section 2. Including review of Annex 1 of MSN 1870 with updated references highlighted.
5. Outline your comment/s on Annex A, by completing this response form with reference to which Annex you are discussing. Highlight or copy relevant sections, ensuring paragraph numbers are noted.

Section 5.2

Do you have any additional comments to add to the response?

Please return completed response forms to seafarersafety@mcga.gov.uk

Alternatively, responses may be posted to:

Maritime and Coastguard Agency
Seafarer Safety and Health Branch
Bay 2/17
105 Commercial Road
Southampton
SO15 1EG

Section 6: Conduct of this consultation

- 6.1. This consultation has been conducted in accordance with the Cabinet Office Consultation Principles.

Consultation principles

- 6.2. The Cabinet Office Consultation Principles can be found at [Consultation Principles 2018](#)

Feedback on conduct of consultation

- 6.3. If you have any comments regarding the conduct of this consultation, please contact the Consultation Co-ordinator at consultation.coordinator@mcga.gov.uk.
- 6.4. We are continually trying to improve the way in which we conduct consultations and appreciate your views. We would be grateful if you could complete and return the attached feedback form. These should be submitted to the Consultation Co-ordinator and are not affected by the deadline for this consultation.
- 6.5. If you require this consultation in an alternative format, please contact either the Consultation Co-ordinator or the named official conducting this consultation.

MCA CONSULTATION FEEDBACK FORM

1. Please indicate on which Consultation you are providing feedback:

.....

2a. Please indicate whether you are responding on behalf of:

- Yourself as an Individual
- A Trade Association
- A Company
- A Government Organisation
- A Trade Union
- Other
(please specify) _____

2b. If you are representing a company, please indicate the size of your company:

- Micro (1-9 employees)
- Small (10-49 employees)
- Medium (50-249 employees)
- Large (250+ employees)

2c. Please indicate whether you accessed this consultation package through:

- post
- email
- website

3. Please rate the quality of this consultation regarding accuracy, good English and spelling:

- Very good
- Good
- Average
- Poor
- Very Poor

4. Please rate the format of the consultation presentation (layout, Annexes etc.):

- Very good
- Good
- Average
- Poor
- Very Poor

5. Please rate the consultation in terms of how clear and concise you felt it was:

- Very good
- Good
- Average
- Poor
- Very Poor

6. Did you feel that the consultation was conducted over a sufficient period of time?

- Yes
- No

7. Were any representative groups, organisations or companies not consulted who you felt should have been?

- Yes
- No

If yes, who? _____

8. Please let us have any suggestions for improvement or other comments you wish to make about this consultation below:

Thank you for your time. Please return this form to:

Consultation Co-ordinator,
Maritime and Coastguard Agency,
Spring Place, Bay 3/26, 105 Commercial Road
Southampton SO15 1EG
Or e-mail it to: consultation.coordinator@mcga.gov.uk

If you are happy to supply your name in case we need to contact you to discuss your views further, please enter it below (this is optional, and your feedback will still be taken into account if you wish to remain anonymous):

Name _____

Tel. No. _____

Please note that the deadline for responses to the Consultation itself does not apply to the return of this form.

Annex A: Draft MSN 1870 (M+F) Amendment 4: The Merchant Shipping and Fishing Vessels (Personal Protective Equipment) Regulations 1999



Maritime &
Coastguard
Agency

MERCHANT SHIPPING NOTICE

MSN 1870 (M+F) Amendment 4 The Merchant Shipping and Fishing Vessels (Personal Protective Equipment) Regulations 1999

Notice to all shipowners, employers, masters, seafarers, safety officers and safety representatives

This notice should be read with the Merchant Shipping and Fishing Vessels (Personal Protective Equipment) Regulations 1999 (S.I. 1999/2205) and the Merchant Shipping (Maritime Labour Convention) (Health and Safety) (Amendment) Regulations 2014 (S.I. 2014/1616) and replaces MSN 1870 (M+F) Amendment 3.

Summary

This notice provides updated safety standards applicable to Personal Protective Equipment covered by the Merchant Shipping and Fishing Vessels (Personal Protective Equipment) Regulations 1999 (S.I. 1999/2205) (“the PPE Regulations”).

This notice also reflects the Merchant Shipping (Maritime Labour Convention) (Health and Safety) (Amendment) Regulations (S.I. 2014/1616) (“the MLC Health and Safety amendments”) and the Merchant Shipping (Work in Fishing Convention) (Consequential and Minor Amendments) Regulations (S.I. 2018/1109) (the “Work in Fishing Consequential Amendments”).

MSN 1870 (M+F) takes into account the MLC Health and Safety amendments which extended the duties to protect “workers” in health and safety legislation, including the PPE regulations, so that they protect all seafarers, regardless of their employment status, and the extended duties on employers also apply to shipowners. On 31 December 2018, the Work in Fishing Amendments came into force and further extended the protection of health and safety

legislation to fishermen regardless of their employment status and applied the duties on employers also to fishing vessel owners. References in this notice to “shipowners and employers” and “seafarers and other workers” therefore now include fishing vessel owners and fishermen.

The PPE Regulations implemented Directive [89/656/EEC](#) and this notice includes the updated technical standards from Directive [2016/425](#). All the obligations in the EU legislation mentioned in MSN 1870 (M+F) Amendment 4, which had effect in the UK prior to the 1st January 2021 are retained in UK law, with any necessary modifications, after the end of the EU Exit implementation period.

Annex 1 gives the design standards for personal protective equipment in use on board ships, for specified work activities and situations, in order to comply with regulation 5(2)(a) of the PPE regulations.

Amendment 4 updates the PPE standards quoted from the British Standards and [EU Harmonised Standards websites](#), including [amended annexes](#), with reference to the UK Conformity Assessment (UKCA) marking (see 5.5 and 5.5.1).

1. Introduction

1.1 The Merchant Shipping and Fishing Vessels (Personal Protective Equipment) Regulations 1999 (the “PPE regulations”) require shipowners and employers to ensure that personal protective equipment (PPE) is provided for seafarers and other workers who are engaged in, or at risk from a hazardous work activity on board a United Kingdom ship. They also apply to non-UK ships whilst in UK waters.

1.2 The PPE regulations are subject to the general principle that use of PPE is always a last resort, to be used where risks cannot be avoided or reduced to a safe level by means of collective protection, or safe systems of work.

2. Provision of PPE

2.1 PPE must be provided to the seafarer by the shipowner or employer, free of charge, except when use of the equipment is not exclusive to the workplace. In this case seafarers and other workers may be required to contribute towards the cost.

2.2 The equipment issued must be “suitable” which is defined as:

- in relation to any work process described in this Merchant Shipping Notice, of the kind and to the standard specified in this Notice, in relation to that work process;
- appropriate for the risks to which the seafarer or other worker is exposed and to the task which they are performing without itself leading to any increased risk;
- correctly fitting the seafarer or other worker, or capable of being adjusted to fit;
- taking into account ergonomic requirements and the seafarer’s or other worker’s state of health; and
- compatible with any other equipment the seafarer or other worker has to use at the same time, so that it continues to be effective against the risk.

2.3 Where seafarers and other workers provide or choose to supply their own PPE it must meet the appropriate standard and be used when engaged in work of the types outlined in Annex 1. This will not exempt the shipowner and/or employer from their duty to supply PPE free of charge and they will remain responsible for ensuring that seafarers and other workers are correctly equipped with suitable PPE.

3. Storage and maintenance of PPE

3.1 In addition, the shipowner and employer must ensure that the PPE supplied is easily accessible, properly stored and maintained. Where appropriate, instructions must be available to seafarers and other workers who are required to carry out any maintenance. The equipment must be regularly inspected in accordance with the manufacturer's instructions, and its operation checked. Respiratory protective equipment must always be checked before and after use.

4. Use of PPE by seafarers and other workers

4.1 The shipowner and employer must ensure so far as practicable that PPE is used as instructed – e.g. that it is only used for the purpose for which it is designed, and that it is worn correctly.

4.2 Seafarers and other workers should receive appropriate training on the risks against which the PPE is designed to protect them, how and when to use it, and how to look after it correctly.

4.3 Seafarers and other workers are required to wear and use the PPE which has been issued to them when appropriate, and to comply with any instruction provided on wearing and maintenance.

5. Standards, design and manufacture

5.1 The specifications for PPE are set out in Annex 1. The list covers the PPE most commonly used on ships but is not exclusive or exhaustive.

5.2 The prefixes "EN" and "BS" stand for "European Norm" and "British Standard" respectively. If there is no "EN" standard available, a "BS" standard is quoted. The standards are those to which the clothing and equipment should comply, and the date listed is when the latest revision of the relevant standard was published (correct at time of publishing this MSN). When referencing the standard, it should be checked that there have been no subsequent amendments.

5.3 Any reference to an EN or BS standard or other standard contained in the Annex, means that standard or an alternative standard which provides equivalent levels of safety, suitability and fitness for purpose when in use.

5.4 The standards of equipment given in this Merchant Shipping Notice do not apply to Life Saving Appliances or other equipment which is subject to the Merchant Shipping (Marine Equipment) Regulations 1999 (S.I. 1999/1957).

5.5 Transition from CE Marking to UKCA Marking in Great Britain occurred from the 31st December 2020 and a new UK CA (UK Conformity Assessed) marking system was introduced, with the full transition to this UK CA marking system from 1st January 2023. The British Standards Institution continues as a full member to (CEN) as relevant to this MSN and as noted with reference to the official numbers in Annex 1.

5.6 Publications mentioned in Annex 1 are available from:

BS and EN Specifications

The British Standards Institute
389 Chiswick High Road
London W4 4AL
Email: cservices@bsigroup.com
Tel: +44 (0) 345 086 9001
Website: <http://www.bsigroup.com/>

5.7 EU Harmonised Standards List

[Summary list of titles and references of harmonised standards](#) under Regulation (EU) 2016/425 on personal protective equipment

6. Other information

6.1 Health and safety executive [\(HSE\) PPE safety e-bulletin 6th April 2022](#)

More information

Seafarer Safety and Health Branch
Maritime and Coastguard Agency
Bay 2/17
Spring Place
105 Commercial Road
Southampton
SO15 1EG

Telephone: +44 (0)203 81 72250

Email: seafarersafety@mca.gov.uk

Website: www.gov.uk/mca

General enquiries: infoline@mca.gov.uk

Please note that all addresses and telephone numbers are correct at time of publishing.

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ANNEX 1

STANDARDS OF PERSONAL PROTECTIVE EQUIPMENT

All harmonised standards that give a presumption of conformity to EU law at the end of the transition period will become 'designated standards' by the references being published on GOV.UK. Businesses will be able to use designated standards to provide presumption of conformity with GB law.

Where the introduction of the new UKCA marking begins to be incorporated into the BSI official references, they will be reflected here.

Harmonised standards remain the relevant standards for placing goods on the Northern Ireland market where EU rules continue to apply.

Note: All protective clothing should conform to BS EN 13688:2013 'Protective Clothing General Requirements'.

All proposed alterations for Amendment 4 have been highlighted.

	Work Activity	Personal protective equipment and clothing to be provided	Full title of standard
1	Any process or activity involving a reasonably foreseeable risk to the head from falling objects	Head Protection to: EN 397:2012 + A1:2012	Industry safety helmets
2	When working in areas where circumstances involve a reasonably foreseeable risk to the head from bruising or abrasion	Scalp protection to: BS EN 812:2012	Industrial bump caps
3	When working in small, fast craft	PAS 028:2002	Marine safety helmets
4	When entering or working in a space or working with machinery or equipment where the noise level exceeds 85dB(A)	Ear Protection to: BS EN 352-1:2020 <i>Replacing BS EN 352-1:2002</i>	Hearing protectors.General requirements Ear muffs
		BS EN 352-2:2020 <i>Replacing BS EN 352-2:2002</i>	Hearing protectors.General requirements– Ear plugs
		BS EN 352-3:2020 <i>Replacing BS EN 352-3:2002</i>	Hearing protectors. General requirements. Ear muffs attached to head protection and /or face protection devices
		BS EN 458:2016 <i>Replacing BS EN 458: 2004</i>	Hearing protectors Recommendations for selection, use care and maintenance. Guidance document
		Hearing protection should be provided with consideration to appropriate guidance such as Section 7 of the MCA Code Of Practice for Controlling Risks Due to Noise on Ships published by TSO and MIN588 Amendment 1.	
5	Welding and gas cutting	Eye and face protection to: BS EN 175:1997	Personal Protection Equipment for eye and face protection during welding and allied processes
		BS EN 166:2002 <i>Replaces BS EN 166:1996</i> <i>Correction EN 166 :2004</i>	Personal eye protection – Specifications
		BS EN 379:2003+A1:2009 <i>BS EN ISO 16321-1:2022</i> <i>Replacing BS EN 169:2002</i>	Personal eye protection Automatic welding filters. <i>Eye and face protection for occupational use - General requirements</i>

			Personal eye protection. Filters for welding and related techniques. Transmittance requirements and recommended use
		Body protection to BS EN ISO 11611:2015 <i>Replacing BS EN 470-1:1995 & BS EN ISO 11611:2007</i> Additional protection may be required in some situations (e.g. for particularly intense welding/cutting operations).	Protective clothing for use in welding and allied processes.
6	Any work activity in which there is reasonably foreseeable risk of injury to the eye from particles, fragments or injurious substances	Eye protection to: BS EN 166:2002 <i>Replaces BS EN 166:1996</i> <i>Correction EN 166:2001</i>	Personal eye protection. Specifications
7	Any work activity involving working in an atmosphere which is likely to be hazardous	Note: The following items should be selected and maintained according to: BS EN 529:2005 <i>Replacing BS 4275:1997</i>	Respiratory protective devices. Recommendations for selection, use, care and maintenance. Guidance document
(a)	Protection against nuisance dust, mist, particles and dust of low toxicity.	Disposable respirators conforming to: BS EN 149:2001+A1:2009	Respiratory protective devices. Filtering half masks to protect against particles. Requirements, testing, marking
		General purpose respirators conforming as appropriate to one of the following:	
		BS EN 136:1998	Respiratory protective devices: Full face masks. Requirements, testing, marking
		BS EN 140:1999	Respiratory protective devices: half masks or quarter masks. Requirements, testing, marking
		BS EN 12083:1998	Respiratory protective devices. Filters with breathing hoses (non-mask mounted filters) Particle filters, gas filters and combined filters. Requirements, testing, marking
		BS EN 143:2021 <i>Replacing BS EN 143:2000</i>	Respiratory protective devices. Particle filters. Requirements, testing, marking
		BS EN 14387:2021 <i>Replacing BS EN 14387:2004+A1:2008</i>	Respiratory protective devices, Gas filter(s) and combined filter(s). Requirements, testing, marking
		BS EN 1827:1999+A1:2009	Respiratory protective devices. Half masks without inhalation valves and with separable filters to protect against gases or gases and particles or particles only. Requirements, testing, marking
(b)	Protection against toxic dusts and gases of low toxicity	Respirators conforming as appropriate to one of the following:	
		BS EN 136:1998	Respiratory protective devices. Full face masks. Requirements, testing, marking
		BS EN 140:1999	Respiratory protective devices. Half masks and quarter masks. Requirements, testing, marking
		BS EN 143:2021 <i>Replacing BS EN 143:2000</i>	Respiratory protective devices. Particle filters. Requirements, testing, marking
		BS EN 14387:2021 <i>Replacing BS EN 14387:2004+A1:2008</i>	Respiratory devices. Gas filter(s) and combined filter(s). Requirements, testing, marking
		BS EN 405:2001+A1:2009	Respiratory protective devices. Valved filtering half masks to protect against

			gases or gases and particles Requirements, testing, marking
		Note: Particulate filters may be incorporated for some applications.	
(c)	Protection against toxic dust	Powered dust respirators, powered dust hoods conforming as appropriate to one of the following:	
		BS EN 136:1998	Respiratory protective devices. Full face masks. Requirements, testing, marking
		BS EN 143:2021 <i>Replacing BS EN 143: 2000</i>	Respiratory protection devices. Particles filters. Requirements, testing, marking
		BS EN 12942: 1998+A2: 2008	Respiratory protective devices. Power assisted filtering devices incorporating full face masks, half masks or quarter masks. Requirements, testing, marking
		BS EN 12941: 1998+A2:2008	Respiratory protective devices. Powered particle filtering devices incorporating a helmet or hood. Requirements, testing, marking
		Protection against highly toxic atmospheres; or where there is oxygen deficiency; or where there is an alternative to the items above where suitable	
(d)	Protection against highly toxic atmospheres; or where there is oxygen deficiency; or where there is an alternative to the items above where suitable	Breathing apparatus conforming to:	
		BS EN 1146: 2005	Respiratory protective devices. Self-contained open circuit compressed air breathing apparatus incorporating a hood for escape. Requirements testing, marking
		BS EN 137:2006	Respiratory protective devices. Self-contained open-circuit compressed air breathing apparatus with full mask. Requirements, testing, marking
		BS EN 138: 1994 BS EN 142:2002	Respiratory protective devices. Specification for fresh air hose breathing apparatus for use with full face mask, half mask or mouth piece assembly.
		BS EN 14593-1:2018 <i>Replacing: BS EN 14593-1:2005</i>	Respiratory protective devices. Compressed air line breathing devices with demand valve. Devices with a full face mask. Requirements, testing marking
		BS EN 14593-2:2005 <i>Replacing: EN 139:1995</i>	Respiratory protective devices. Compressed air line breathing apparatus with demand valve. Apparatus with a half mask Requirements, testing, marking
		BS EN 14594:2018 <i>Replacing: BS EN 14594:2005</i>	Respiratory protective devices. Continuous flow compressed air line breathing devices. Requirements, testing, marking
		BS EN 269: 1995	Respiratory protective devices. Specification for powered fresh air hose breathing apparatus incorporating a hood
		BS EN 402: 2003	Respiratory protective devices. Lung governed demand self- contained open-circuit compressed air breathing apparatus with full face mask or mouthpiece for escape. Requirements, testing, marking

8	Any process or activity involving working in an area where there is a foreseeable risk of injury from substances which are corrosive or likely to be absorbed through the skin	Protective overalls, gloves or head gear, whichever is appropriate:	
		BS EN ISO 13688:2013+A11:2021 <i>Replacing EN 340:2003</i>	Protective clothing general requirements
		BS EN 14605:2005+A1:2009 <i>Replacing: EN 465:1995; EN 466-1:1995 & EN 467:1995</i>	Protective clothing against liquid chemicals. Performance requirements for chemical protective clothing with liquid tight (Type 3) or spray-tight (Type 4) connections including items providing protection to parts of the body only (Types PB [3] and PB [4])
		BS EN 943-1:2015+A1:2019	Protective clothing against dangerous solid, liquid and gaseous chemicals, including liquid and solid aerosols - Performance requirements for Type 1 (gas-tight) chemical protective suits
		BS EN 943-2:2019	Protective clothing against dangerous solid, liquid and gaseous chemicals, including liquid and solid aerosols - Performance requirements for Type 1 (gas-tight) chemical protective suits for emergency teams (ET)
9	Any process or activity involving a reasonably foreseeable risk of injury to the hands unless the use of hand protection would increase the risk	Hand protection conforming as appropriate to:	
		BS EN 374-1:2016+A1:2018 <i>Replacing: EN 374-1:2003</i>	Protective gloves against dangerous chemicals and micro-organisms. Terminology and performance requirements for chemical risks
		BS EN 374-2:2019 <i>Replacing: BS EN 374-2:2014</i>	Protective gloves against dangerous chemicals and micro-organisms. Determination of resistance to penetration
		BS EN 16523-1:2015+A1:2018 <i>Replacing: BS EN 374-3:2003</i>	Determination of material resistance to permeation by chemicals. Permeation by potentially hazardous liquid chemicals under conditions of continuous contact
		BS EN 16523-2 :2015+A1:2018	Determination of material resistance to permeation by chemicals. Permeation by potentially hazardous gaseous chemicals under conditions of continuous contact
		BS EN ISO 374-4:2019 <i>Replacing: BS EN 374-4:2013</i>	Protective gloves against dangerous chemicals and micro-organisms. Determination of resistance to degradation by chemicals.
		BS EN ISO 374-5:2016	Protective gloves against dangerous chemicals and micro- organisms. Terminology and performance requirements for micro-organisms risks.
		BS EN 388:2016+A1:2018 <i>EN 388:2016+A1:2018 Replacing: BS EN 388: 2003</i>	Protective gloves against mechanical risks
		BS EN 407:2020 <i>Replacing: BS EN 407:2004</i>	Protective gloves and other hand protective equipments against thermal risks (heat and/or fire)
		BS EN 510:2019	Specification for protective clothing for use where there is a risk of entanglement with moving parts
		BS EN ISO 21420:2020 <i>Replacing: BS EN 420:2003+A1:2009</i>	Protective gloves. General requirements and test methods
BS EN 511:2006 <i>Replacing: BS EN 511:1994</i>	Protective gloves against cold		

10	Any process or activity involving particular risk of injury to the feet	Foot protection conforming to:	
		BS EN ISO 20345:2022 <i>Replacing:</i> BS EN ISO 20345:2011, BS EN ISO 20345:2004	Personal protective equipment. Safety footwear
		BS EN ISO 17249:2013	Safety footwear with resistance to chain saw cutting
		BS EN 15090:2012	Footwear for firefighters
		BS EN ISO 20346:2022 <i>Replacing:</i> BS EN ISO 20346:2014	Personal protective equipment. Protective footwear
		BS EN ISO 20347:2022 <i>Replacing:</i> BS EN ISO 20347:2012	Personal protective equipment. Occupational footwear
11	Work at height or in any other area where there is a reasonably foreseeable risk of falling	Safety harness and associated lanyard conforming to the following:	
		BS EN 353-1:2014 +A1:2017 <i>Replacing EN 353-1:2014</i>	Personal fall protection equipment. Guided type fall arresters including an anchor line. Guided fall type arresters including a rigid anchor line
		BS EN 353-2:2002	Personal protective equipment against falls from height. Guided type fall arresters including a flexible anchor line
		BS EN 354:2010	Personal fall protection equipment. Lanyards
		BS EN 355:2002	Personal protective equipment against falls from a height. Energy absorbers
		BS EN 358:2018	Personal protective equipment for work positioning and prevention of falls from a height – Belts and lanyards for work positioning or restraint
		BS EN 360: 2002*	Personal protective equipment against falls from height. Retractable type fall arresters
		BS EN 361:2002*	Personal protective equipment against falls from height. Full body harnesses
		BS EN 362:2004*	Personal protective equipment against falls from height. Connectors
		*See BS EN 365:2004 for marking requirements.	Personal protective equipment against falls from a height. General requirements for instructions for use, maintenance, periodic examination, repair, marking and packaging
		BS 8437:2005+A1:2012	Code of Practice for selection, use and maintenance of personal fall protection systems and equipment for use in the workplace
			Or where the use of portable ladders is necessary, such ladders to be used in conjunction with the guidance contained in Chapter 17 in the Code of Safe Working Practices for Merchant Seafarers.
12	Any work carried out from an overside position or in an exposed position where there is a reasonably foreseeable risk of falling or being washed overboard or any work carried out in or from a ship's boat	Either a MCA approved lifejacket or a personal flotation device conforming as appropriate to one of the following, taking into account the area of operation.	
		BS EN ISO 12402-8:2020 <i>Replacing BS EN ISO 12402-8:2006+A1:2011</i>	Personal flotation devices. Accessories. Safety requirements and test methods
		BS EN ISO 12402-6:2020	Personal flotation devices. Special application lifejackets and buoyancy

			aids. Safety requirements and additional test methods.
		BS EN ISO 12402-3:2020 <i>Replacing BS EN ISO 12402-3:2006+A1:2010</i>	Personal flotation devices. Lifejackets, performance level 150. Safety requirements
		BS EN ISO 12402-2:2020 <i>Replacing: BS EN ISO 12402-2:2006+A1:2010</i>	Personal flotation devices. Lifejackets, performance level 275. Safety requirements
		<i>Partially inherent lifejackets must have at least 89 N of inherent buoyancy; and with the inflatable sections relying on automatic inflation</i> <i>Specific to the fishing industry only, guidance has been provided within MGN 588 (F) 7.3 Other types of PPE, determined on the basis of a risk assessment.</i>	
13	Any work activity where it is necessary to carry out repair or maintenance work on or near exposed live electrical equipment, and there is a reasonably foreseeable risk of injury	Rubber gloves conforming to: BS EN 60903:2003	Live working. Gloves of insulating material
		Protective sleeves conforming to: BS EN 60984:1993	Specification for sleeves of insulating material for live working
		An insulating mat (except where specially insulated flooring is installed) conforming to: BS EN 61111:2009 <i>Withdrawn BS 921:1976</i>	Live working. Electrical insulating matting
		BS EN 50321-1:2018	Live working. Footwear for electrical protection - Insulating footwear and overboots
		BS EN 61482-2:2020	Live working. Protective clothing against the thermal hazards of an electric arc - Requirements
		Rubber soled footwear (no standard necessary)	
		Note: gloves, sleeves and mats should protect against the appropriate voltage.	
14	Any work activity involving a reasonably foreseeable risk of injury from vehicle movement e.g. during ro-ro operations	BS EN ISO 20471:2013+A1:2016 <i>Replacing: BS EN ISO 20471:2013</i>	High visibility clothing. Test methods and requirements
15	Any work process involving exposure to heat	BS EN ISO 11612:2015 <i>Replacing BS EN 531:1995</i>	Protective clothing. Clothing to protect against heat and flame. Minimum performance requirements
16	Any work process involving exposure to cool or cold conditions	BS EN 14058:2017 <i>Replacing BS EN 14058: 2004</i>	Protective clothing. Garments for protection against cool environments
17	Work in engine rooms, machinery spaces or anywhere there is a foreseeable risk of fire or explosion.	BS EN ISO 11612:2015	Protective clothing. Clothing to protect against heat and flame. Minimum performance requirements
			Overalls made of fabric of low flammability (e.g. natural fibres, high cotton content) and with Flame retardant finishes. Cotton or cotton polyester clothing with flame-retardant finishes are available to protect against sparks and flame