MERCHANT SHIPPING NOTICE



MSN 1870 (M+F) **Amendment 2**

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.12014/1616).

This notice replaces MSN 1870 (M+F) Amendment 1.

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) took into account the MLC Health and Safety amendments, which do not apply to fishing vessels and 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 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.

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 2 reflects the changes in regulations since the publication of this MGN and updates the PPE standards quoted from the British Standards and EU Commissions Harmonised Standards websites.



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 in UK waters.
- 1.2 The PPE regulations are subject to the general rule 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 free of charge, except that where use of the equipment is not exclusive to the workplace, seafarers and other workers may be required to contribute towards the cost.
- 2.2 The equipment issued must be "suitable" which is defined as:
 - 2.2.1 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;
 - 2.2.2 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;
 - 2.2.3 correctly fitting the seafarer or other worker, or capable of being adjusted to fit;
 - 2.2.4 taking into account ergonomic requirements and the seafarer's or other worker's state of health; and
 - 2.2.5 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, and where appropriate, instructions are 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 put on and worn correctly.
- 4.2 Seafarers and other workers should receive adequate and appropriate training so that they are aware of 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.



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 not "EN" standard available, a "BS" standard is quoted. The standards are those to which the clothing and equipment should comply and the date which appears will be the date on which the latest revision of the relevant standard was published. 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 Publications mentioned in Annex 1 are available from:

BS and EN Specifications

The British Standards Institute 389 Chiswick High Road London W4 4AL

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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.

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'.

	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 352-1:2002	Hearing protectors. Safety requirements and testing. Ear muffs
		BS EN 352-2:2002	Hearing protectors. Safety requirements and testing– Ear plugs
		BS EN 352-3:2002	Hearing protectors. Safety requirements and testing. Ear muffs attached to an industrial safety helmet
		BS EN 458:2016 Replacing BS EN 458: 2004	Hearing protectors Recommendations for selection, use care and maintenance.
		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.	Guidance document
5	Welding and gas cutting	Eye and face protection BS EN 175:1997	Personal Protection Equipment for eye and face protection during welding and allied processes
		BS EN 166:2002 Replaces BS EN 166:1996 Correction EN 166:2001	Personal eye protection – Specifications
		BS EN 379:2003+A1:2009 BS EN 169:2002	Personal eye protection Automatic welding filters. Personal eye protection. Filters for welding and related techniques. Transmittance requirements and recommended use
		Body protection to BS EN ISO 11611:2015 Replacing BS EN 470- 1:1995 & BS EN ISO 11611:2007	Protective clothing for use in welding and allied processes. General requirements
		Additional protection may be required in some situations (e.g. for particularly intense welding/cutting operations).	
6	Any work activity in which there is reasonably foreseeable risk of	Eye protection to: BS EN 166:2002 Replaces BS EN 166:1996	As above



	injury to the eye from particles,	Correction EN 166:2001	
	fragments or injurious substances		
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 Replacing BS 4275:1997	Guide to implementing an effective respiratory protective device programme
(a)	Protection against nuisance dust, mist, particles and dust of low	Disposable respirators conforming to:	
	toxicity.	BS EN149:2001+A1:2009 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 143:2000	Respiratory protective devices. Particle filters. Requirements, testing, marking
		BS EN 14387:2004+A1:2008	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	As above
		BS EN 140:1999	As above
		BS EN 143:2000	As above
		BS EN 14387:2004+A1:2008 BS EN 405:2001+A1:2009	As above 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.	The same state of the same sta
(c)	Protection against toxic dust	Powered dust respirators, powered dust hoods conforming as appropriate to one of the following:	
		BS EN 136:1998	As above (note: this only applies to the mask)
		BS EN 143: 2000	As above
		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	



atmosp oxygen is an alt	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	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 Replacing: BS EN 14593- 1:2005	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 Replacing: EN 139:1995	Respiratory protective devices. Compressed air line breathing apparatus with demand valve. Apparatus with a half mask at positive pressure. Requirements, testing, marking
		BS EN 14594:2018 Replacing: BS EN 14594:2005	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	Protective overalls, gloves or head gear, whichever is appropriate:	
	substances which are corrosive or likely to be absorbed through the	BS EN ISO 13688:2013 Replacing EN 340:2003	Protective clothing general requirements
	skin	BS EN 14605:2005+A1:2009 Replacing: EN 465:1995; EN 466-1:1995 & EN 467:1995	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]
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 Replacing: EN 374-1:2003	Protective gloves against chemicals and micro-organisms. Terminology and performance requirements for chemical
		BS EN 374-2:2019 Replacing: BS EN 374-2:2014	risks Protective gloves against dangerous chemicals and micro-organisms. Determination of resistance to penetration
		BS EN 16523-1:2015+ A1:2018 Replacing: BS EN 374-3:2003	Determination of material resistance to permeation by chemicals. Permeation by potentially hazardous liquid chemicals under conditions of continuous contact

		BS EN ISO 374-4:2019	Protective gloves against chemicals and
		Replacing: BS EN 374-4:2013	mirco-organisms. Determination of
		BS EN ISO 374-5:2016	resistance to degradation by chemicals. Protective gloves against dangerous
		B3 EN 130 374-3.2010	chemicals and micro- organisms.
			Terminology and performance
			requirements for micro-organisms risks.
		BS EN 388:2016+A1:2018	Protective gloves against mechanical
		Replacing: BS EN 388: 2003	risks
		BS EN 407:2020	Protective gloves against thermal risks
		Replacing: BS EN 407:2004	(heat and or fire)
		BS EN ISO 21420:2020	Protective gloves. General requirements
		Replacing: BS EN	and test methods
		420:2003+A1:2009	
		BS EN 511:2006	Protective gloves against cold
		Replacing: BS EN 511:1994	
10	Any process or activity involving	Foot protection conforming to:	
	particular risk of injury to the feet	BS EN ISO 20345:2011	Personal protective equipment. Safety
		Replacing BS EN ISO	footwear
		20345:2004 BS EN ISO 17249:2013	Cofety facture or with registance to chain
		DO EN IOO 17249.2013	Safety footwear with resistance to chain
		BS EN ISO 15090:2012	saw cutting Footwear for firefighters
		BS EN ISO 20346:2014	Personal protective equipment.
		23 211 133 200 70.20 14	Protective footwear
		BS EN ISO 20347:2012	Personal protective equipment.
			Occupational footwear
11	Work at height or in any other	Safety harness and associated	
	area where there is a reasonably	lanyard conforming to the	
	foreseeable risk of falling	following:	
		BS EN 353-1:2014 +A1:2017	Personal fall protection equipment.
		Replacing EN 353-1:2014	Guided type fall arresters including an
			anchor line. Guided fall type arresters
		DO EN 050 0,0000	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.
		BO EN 304.2010	Lanyards
		BS EN 355:2002	Personal protective equipment against
		20 2.1 000.2002	falls from a height. Energy absorbers
		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
		#0 B0 EN 005 050 (falls from height. Connectors
		*See BS EN 365:2004 for	
		marking requirements. BS 8437:2005+A1:2012	Code of Dreeties for salesting and a
		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	Either a MCA approved	
	overside position or in an exposed	lifejacket or a personal flotation	
	position where there is a	device conforming as	
	reasonably foreseeable risk or	appropriate to one of the	
	falling or being washed overboard	following, taking into account the area of operation.	
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		DO EN 100 40400 0 0000	
	or any work carried out in or from a ship's boat	BS EN ISO 12402-8:2020 Replacing BS EN ISO 12402- 8:2006+A1:2011	Personal flotation devices. Accessories. Safety requirements and test methods
		BS EN ISO 12402-3:2020 Replacing BS EN ISO 12402- 3:2006+A1:2010	Personal flotation devices. Lifejackets, performance level 150. Safety requirements
		BS EN ISO 12402-2:2020 Replacing: BS EN ISO 12402- 2:2006+A1:2010	Personal flotation devices. Lifejackets, performance level 275. Safety requirements
		Partially inherent lifejackets must have at least 89 N of inherent buoyancy; and with the inflatable sections relying on automatic inflation	
		MGN 588 (F) 7.3 Other types of PPE may be accepted where determined on the basis of a risk assessment.	
13	Any work activity where it is necessary to carry out repair or maintenance work on or near	Rubber gloves conforming to: BS EN 60903:2003	Live working. Gloves of insulating material
	exposed live electrical equipment, and there is a reasonably foreseeable risk of injury	Protective sleeves conforming to: BS EN 60984:1993 Correction	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 Withdrawn BS 921:1976	Live working. Electrical insulating matting
		Rubber soled footwear (no standard necessary) Note: gloves, sleeves and mats should protect against the	
14	Any work activity involving a reasonably foreseeable risk of injury from vehicle movement e.g. during ro-ro operations	appropriate voltage. BS EN ISO 20471:2013+A1:2016 Replacing: BS EN ISO 20471:2013	High visibility clothing. Test methods and requirements
15	Any work process involving exposure to heat	BS EN ISO 11612:2015 Replacing BS EN 531:1995	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 Replacing BS EN 14058: 2004	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 14116:2015 index 2	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