



Workboat Code Edition 3 - Standards and guidelines for best practice

Notice to all designers, builders, owners, operators, employers, crews, masters of small workboats, pilot boats, remotely operated unmanned vessels, and Certifying Authorities.

This notice should be read with The Workboat Code Edition 3.

This MIN expires X month XXXX

Summary

This Marine Information Notice is intended to supplement The Workboat Code Edition 3 by providing a summary of standards referenced therein and guidelines considered as best practice for small workboats and pilot boats certified under this edition of the Code.

This M Notice is not exhaustive and shall be viewed as guidance only.

1. Introduction

1.1 In 2022, the Maritime and Coastguard Agency published “The Safety of Small Workboats and Pilot Boats – A Code of Practice Edition 3”.

1.2 The Workboat Code Edition 3 came into force on **xx yyyy 2023**, and it replaces:

- a. The Safety of Small Workboats and Pilot Boats – A Code of Practice Edition 1 (the “Brown Code”);
- b. MGN 280 Small Vessels in Commercial Use for Sport or Pleasure, Workboats and Pilot Boats – Alternative Construction Standards, in so far as far as it applies to small workboats and pilot boats; and,
- c. The Workboat Code Edition 2, as amended.

2. Summary

2.1 The following is a summary of current standards and guidelines applicable to vessels certified under the Workboat Code Edition 3. All standards and guidelines listed are at the point of publication of this M Notice the most up to date version. Where a standard or guideline is no longer in date but is still referenced within the Code, it is the responsibility of the vessel owner/operator to use the latest edition.



2.2 Equivalent standards may be considered on a case-by-case basis subject to the approval of the Administration.

2.3 Numbering refers to applicable section reference(s) within the Code.

Section 2 – Definitions	
“Certifying Authority”	MIN 538 (M) Amendment 3 Codes of Practice - Authorisation of certifying authorities
Section 3 – Application, Interpretation and Certification	
3.6.1	MGN 564 (M+F) Amendment 1 – Marine Casualty and Marine Incident Reporting
3.12.1	The Merchant Shipping (Official Log Books) Regulations 1981 Official MCA Log Books
3.13.2	MGN 79 Safety equipment and pollution prevention equipment carried in excess of statutory requirements
Section 4 – Certification and Examinations	
4.5.2.2.1	MSN 1672 (M+F) Amendment 4 – Ship inspection and survey organisations
4.5.2.5	MGN 546 (M) In-Water Survey
Section 5 – Construction and Structural Strength	
5.2.2	ISO 12215-5: 2019 Small craft – Hull construction and scantlings – Part 5: Design pressures for monohulls, design stresses, scantlings determination
5.5.2.2	ISO 11812: 2020 Small craft – Watertight or quick-draining recesses and cockpits
5.8.3	The Provision and Use of Work Equipment Regulations 1998 MGN 331 (M+F) Amendment 1 – Provision and use of work equipment (PUWER) regulations 2006 Code of safe working practices for merchant seafarers (COSWP) Amendment 6 (October 2021)
5.9.3.1	ISO 6185-2: 2001 Inflatable boats — Part 2: Boats with a maximum motor power rating of 4,5 kW to 15 kW inclusive ISO 6185-3: 2014 Inflatable boats — Part 3: Boats with a hull length less than 8 m with a motor rating of 15 kW and greater ISO 6185-4: 2011 Inflatable boats — Part 4: Boats with a hull length of between 8 m and 24 m with a motor power rating of 15 kW and greater
Section 6 – Weathertight Integrity	
6.1.1	ISO 12216: 2020 Small Craft – Windows, portlights, hatches, deadlights and doors – Strength and watertightness requirements
6.3.6	MSN 1672 (M+F) Amendment 4: Ship inspection and survey organisations
6.4.1.4.2	BSI – BS MA 18 Salt Water Piping Systems in Ships ISO 10497: 2010 Testing of valves – Fire type-testing requirements ISO 15540: 2016 Ships and marine technology – Fire resistance of non-metallic hose assemblies and non-metallic compensators – Test methods ISO 13363: 2016 Rubber and plastics hoses for marine-engine wet-exhaust systems – Specification; or SAE J2006 R2 – Marine Exhaust Hose IMO A.753(18) Guidelines for the Application of Plastic Pipes on Ships
Section 8 – Machinery, Propulsion and Fuel Systems	
8.10	ISO 10088: 2021 Small Craft – Permanently installed fuel systems



	ISO 13591: 1997 Small Craft – Portable fuel systems for outboard motors ISO 21487: 2012 Small Craft – Permanently installed petrol and diesel fuel tanks
8.11	ISO 7840: 2021 Small craft – Fire resistant fuel hoses
8.11.3.1	ISO 10088: 2021 Small craft – Permanently installed fuel systems ISO 15540: 2016 Ships and marine technology – Fire resistance of non-metallic hose assemblies and non-metallic compensators – Test methods ISO 7840: 2021 Small craft – Fire resistant fuel hoses
8.12.1	ISO 21487: 2012 Small craft – Permanently installed petrol and diesel fuel tanks ISO 11105: 2020 Small craft – Ventilation of petrol engine and/or petrol tank compartments
8.12.7	ISO 11105: 2020 Small craft – Ventilation of petrol engine and/or petrol tank compartments ISO 9094: 2015 Small craft – Fire protection
8.15.1	MGN 658 (M+F) Merchant shipping and fishing vessels control of noise at work regulations 2007 MGN 636 (M) Amendment 1 merchant shipping and fishing vessels (health and safety at work) regulations 1997
8.15.2	MGN 353 (M+F) Amendment 1 control of vibration at work regulations 2007 MGN 636 (M) Amendment 1 merchant shipping and fishing vessels (health and safety at work) regulations 1997
Section 9 – Electrical Installations	
9.1.1	British Marine Electrics and Electronics Association Code of Practice (5 th Edition) BS 8450: 2006 Code of Practice for Installation of Electrical and Electronic Equipment in Ships BSI – BS 6883 Elastomer Insulated Cables for Fixed Wiring in Ships and on Mobile and Fixed Offshore Units – Requirements and Test Methods BS EN 60092-507: 2015 Electrical Installations in Ships – Small vessels BS EN 60332-1-3: 2004+A1: 2015 Tests on electric and optical fibre cables under fire conditions – Test for vertical flame propagation for a single insulated wire or cable. Procedure for determination of flaming droplets/particles BS EN 60332-1-2: 2004+A12: 2020 Tests on electric and optical fibre cables under fire conditions – Test for vertical flame propagation for a single insulated wire or cable. Procedure for 1 kW pre-mixed flame BS EN IEC 60332-3-10: 2018+ A11: 2020 Tests on electric and optical fibre cables under fire conditions – Test for vertical flame spread of vertically-mounted bunched wires or cables. Apparatus BS EN 61140: 2016 Protection against electric shock. Common aspects for installation and equipment ISO 13297: 2020 Small Craft – Electrical systems – Alternating and direct current installations BS EN ISO 8846: 2017 Small Craft – Electrical devices. Protection against ignition of surrounding flammable gases BS EN 60079-26: 2015 Explosive atmospheres – Equipment with equipment protection level (EPL) Ga



9.6.1	ISO/TR 10134: 2020 Small Craft – Electrical devices – Established practices for the design, construction and installation of lightning-protection systems
Section 10 – Steering, Rudder and Propulsion Systems	
10.1.3	MGN 199 (M) Dangers of interaction
10.2.2	ISO 13929: 2001 Small Craft – Steering gear – Geared link systems ISO 10592: 2021 Small Craft – Remote hydraulic steering systems
Section 12 – Stability	
12.1.1.2	MGN 281
12A.2.5	ISO 12217-1: 2021 Small Craft – Stability and buoyancy assessment and categorization – Part 1: Non-sailing boats of hull length greater than or equal to 6 m ISO 12217-2: 2021 Small Craft – Stability and buoyancy assessment and categorization – Part 2: Sailing boats of hull length greater than or equal to 6 m
12B.5.4	Section 2.8 of Part B of the IMO’s amended Intact Stability Code (2008 IS Code)
Section 13 – Freeboard and Freeboard Marking	
13.2.1	MSN 1752 (M): The Merchant Shipping (Load Line) Regulations 1998, as amended by the Merchant Shipping (Load Line) (Amendment) Regulations 2000
Section 14 – Life-Saving Appliances	
Table 14.1.2 Note A	MSN 1676 (M) Amendment 1 - Merchant shipping life-saving appliances regulations
14.4.1.3	ISO 12402-2: 2020 Personal floatation devices – Part 2: Lifejackets, performance level 275 – Safety requirements ISO 12402-3: 2020 Personal floatation devices – Part 3: Lifejackets, performance level 150 – Safety requirements
14.4.8	MGN 548 (M+F) Life-Saving Appliances – Inflatable SOLAS Certified Liferrafts, Lifejackets, Marine Evacuation Systems, and repair of Inflated Rescue Boats – Servicing Requirements and Approved Service Stations MGN 553 (M+F) Life-Saving Appliances – Inflatable Non-SOLAS Liferrafts, Lifejackets, Marine Evacuation Systems, Danbuoys and Lifebuoys – Technical Standards and Servicing Requirements
14.7.1	MGN 544 (M+F) Life-Saving Appliances – Means of recovery
14.11.1	MGN 71 Musters, drills, on-board training and instructions, and support systems
14.11.2	MGN 544 (M+F) Life-Saving Appliances – Means of recovery
14.12.2.1	MED Annex referenced by MED (Wheelmark) compliance certificate: A.1/4.18
14.12.2.2	MED Annex referenced by MED (Wheelmark) compliance certificate: A.1/4.55
Section 15 – Fire Safety	
15.1.3.1.1	Resolution MSC.307(88) (adopted on 3 December 2010) International Code for Application of Fire Test Procedures, 2010 (2010 FTP Code) – Part 1 – Non-combustibility Test
Table 15.1.3.2.1	Resolution MSC.307(88) (adopted on 3 December 2010) International Code for Application of Fire Test Procedures, 2010 (2010 FTP Code) – Part 8 – Test for upholstered furniture
15.2.2	ISO 10239: 2014 Small Craft – Liquefied petroleum gas (LPG) systems



15.2.6.2	Resolution MSC.307 (88) (adopted on 3 December 2010) International Code for Application of Fire Test Procedures, 2010 (2010 FTP Code)
15.3.1	ISO 14895: 2016 Small craft – Liquid-fuelled galley stoves and heating appliances
15.5.1	BS 5852-1: 1979 Fire tests for furniture – Methods of test for the ignitability by smokers' materials of upholstered composites for seating Resolution MSC.307(88) (adopted on 3 December 2010) International Code for Application of Fire Test Procedures, 2010 (2010 FTP Code) – Part 8 – Test for upholstered furniture
15.6.3.1	BS EN 50291-1: 2018 Gas detectors. Electrical apparatus for the detection of carbon monoxide in domestic premises – Test methods and performance requirements BS EN 50291-2: 2019 Electrical apparatus for the detection of carbon monoxide in domestic premises - Electrical apparatus for continuous operation in a fixed installation in recreational vehicles and similar premises including recreational craft. Additional test methods and performance requirements
Section 16 – Fire Appliances	
16.3.1.7	MGN 276 (M+F) Fire Protection – Maintenance of portable fire extinguishers
16.3.2.4	BS EN 3 Portable Fire Extinguishers
16.4.2.3	MSN 1666 The Merchant Shipping (Fire Protection) Regulations 1998: Fixed fire detection alarm and extinguishing systems
16.4.2.4.3	MGN 354 (M+F) Fishing and small vessels: safe operation of fixed CO2 gas fire extinguishing systems
16.5.1	BS EN 1869: 2019 Fire Blankets
Section 17 – Radiocommunications Equipment	
17.1.2	R&TTE Declaration of conformity to include: <ul style="list-style-type: none"> • Satellite Earth Station – <ol style="list-style-type: none"> 1. IEC 60945 or EN 60945 2. IEC 61097-4 or EN 300 829, ETS 300 460, EN 301 843, or IEC 61097-13 • EGC Receiver - IEC 61097-4; IEC 60945 or EN 60945. <p>MED Annex referenced by MED (Wheelmark) compliance certificate:</p> <ul style="list-style-type: none"> • Satellite Earth Station- A.1/5.13 or A.1/5.19 • EGC Receiver - A.1/5.4.
Table 17.2.1 MF radio installation with DSC	R&TTE Declaration of conformity to include: <ul style="list-style-type: none"> • Transceiver unit - EN 300 373-3 + EN 338-4 (class E); • Watchkeeping receiver- EN 301 033. <p>MED Annex referenced by MED (Wheelmark) compliance certificate:</p> <ul style="list-style-type: none"> • Transceiver unit - A.1/5.10 for MF or A.1/5.10 and A.1/5.5 for MF and HF; • Watchkeeping receiver - A.1/5.11 for MF or A.1/5.15 for MF/HF.
Table 17.2.1 NAVTEX receiver	R&TTE Declaration of conformity to include - EN 300 065 or IEC 61097-6



	MED Annex referenced by MED (Wheelmark) compliance certificate - A.1/5.3
Table 17.2.1 Note D	MIN 636 (M+F) Amendment 2 Iridium GMDSS recognised mobile satellite service
17.4.1	<p>MGN 324 (M+F) Amendment 1 Navigation - Watchkeeping Safety - Use of VHF Radio and AIS</p> <p>R&TTE Declaration of conformity to include:</p> <ul style="list-style-type: none"> • VHF Portable Radio Receiver - EN 302 885-3; • VHF DSC Transceiver - EN 301 025-3; • VHF DSC Watchkeeping receiver - EN 301 033. <p>MED Annex referenced by MED (Wheelmark) compliance certificate:</p> <ul style="list-style-type: none"> • VHF DSC Transceiver - A.1/5.1; • VHF DSC Watchkeeping receiver - A.1/5.2. <p>Survival craft two-way VHF radiotelephone</p> <p>R&TTE Declaration of conformity to include: EN 300 225</p> <p>MED Annex referenced by MED (Wheelmark) compliance certificate: A.1/5.17.</p>
17.5.4	<p>MSN 1816 (M+F) Mandatory registration of emergency position indicating radio beacons (EPIRBs)</p> <p>R&TTE Declaration of conformity to include: IEC 61097-4; IEC 60945 or EN 60945</p> <p>MED Annex referenced by MED (Wheelmark) compliance certificate: A.1/5.6</p>
17.6.1	<p>MSN 1816 (M+F) Mandatory registration of emergency position indicating radio beacons (EPIRBs)</p> <p>ETSI – EN 302 152 Electromagnetic compatibility and Radio spectrum Matters (ERM); Satellite Personal Locator Beacons (PLBs) operating in the 406,0 MHz to 406,1 MHz frequency band</p> <p>Class M VHF DSC MOB with AIS and light: ITU M.493-14</p>
17.8.1.2	MGN 375 (M+F) Navigation: maritime safety information (MSI)
Section 19 – Navigation	
19.3.1	MGN 293 (M+F) Alternative arrangement for paper chart requirements on MCA code vessels under 24 metres in length and fishing vessels under 24 metres in length
19.3.4	MGN 319 (M+F) Acceptance of electronic chart plotting systems for fishing vessels under 24 metres and small vessels in commercial use (code boats) up to 24 metres load line length
19.6.1	<p>ISO 8729-1: 2020 Ships and marine technology – Marine radar reflectors – Part 1: Passive Type</p> <p>ISO 8729-2: 2009 Ships and marine technology – Marine radar reflectors – Part 2: Active Type</p> <p>MGN 349 (M+F) Carriage and use of radar reflectors on small vessels</p>
19.8.1.3	<p>BS EN 62252: 2004 Maritime navigation and radiocommunication equipment and systems. Radar for craft not in compliance with IMO SOLAS Chapter V. Performance requirements, methods of test and required test results</p> <p>SIST EN 302 248 Navigation radar for use on non-SOLAS vessels – Harmonised Standard covering the essential requirements of article 3.2 of the Directive 2014/53/EU</p>



	Radio and Telecommunications Terminal Equipment Directive (2014/53/EC)
19.8.1.4	MGN 465 (M+F) Navigation: automatic identification systems (AIS) annual testing COMSAR/Circ.32 Harmonization of GMDSS requirements for radio installations on board SOLAS ships
Section 20 – Anchors and Cables	
Tables 20.1 & 20.2	BS 7160: 1990 Specification for anchor chains for small craft
Section 21 – Accommodation and Recreational Facilities	
21.1.4	MIN 671 (M) MLC Food and catering recognised qualifications for food hygiene and food safety
21A.1.3	MGN 658 (M+F) Merchant shipping and fishing vessels control of noise at work regulations 2007 MGN 353 (M+F) Amendment 1 control of vibration at work regulations 2007 MGN 636 (M) Amendment 1 merchant shipping and fishing vessels (health and safety at work) regulations 1997 MGN 436 (M+F) Amendment 2 Whole body vibration – Guidance on mitigating against the effects of shocks and impacts on small vessels
21B	MGN 477 (M) Amendment 2 MLC Seafarers’ employment agreements
21B.3.1	MGN 602 (M) MLC Substantial equivalence for crew accommodation for new vessels of 200 GT to less than 500 GT
Section 22 – Protection of Personnel	
22.1	The Merchant Shipping and Fishing Vessels (Health and Safety at Work) Regulations 1997 MGN 636 (M) Amendment 1 merchant shipping and fishing vessels (health and safety at work) regulations 1997 MGN 658 (M+F) Merchant shipping and fishing vessels control of noise at work regulations 2007 MGN 353 (M+F) Amendment 1 control of vibration at work regulations 2007 MGN 436 (M+F) Amendment 2 Whole body vibration – Guidance on mitigating against the effects of shocks and impacts on small vessels MGN 331 (M+F) Amendment 1 Provision and use of work equipment (PUWER) Regulations 2006 MGN 332 (M+F) Amendment 1 Lifting operations and lifting equipment (LOLER) regulations 2006 MGN 410 (M+F) Amendment 1 Health and safety at work (Work at height) Regulations 2010 MGN 90 (M+F) Amendment 2 Implementation of EC Directive 90/269/EC, the merchant shipping and fishing vessels (Manual handling operations) Regulations 1998 MSN 1870 (M+F) Amendment 3 Personal protective equipment (PPE) Regulations 1999 Code of safe working practices for merchant seafarers (COSWP) Amendment 6 (October 2021) The Merchant Shipping (Safe Movement on Board Ship) Regulations 1988 MGN 624 (M+F) Health and safety at work (Carcinogens and mutagens) Regulations 2007, as amended MSN 1889 (M+F) Amendment 2 merchant shipping and fishing vessels health and safety at work biological agents regulations 2010 as amended



	MSN 1888 (M+F) Amendment 2 merchant shipping and fishing vessels health and safety at work chemical agents regulations 2010 as amended MGN 591 (M+F) Provision of safe means of access to fishing vessels and small vessels in ports MSN 1890 (M+F) Amendment 2 the merchant shipping and fishing vessels health and safety at work regulations 1997 and the merchant shipping maritime labour convention medical certification regulations 2010 new and expectant mothers MGN 428 (M+F) Amendment 1 merchant shipping and fishing vessels (health and safety at work) (artificial optical radiation) regulations 2010 MGN 429 The Merchant Shipping and Fishing Vessels (Health and Safety at Work) (Asbestos) Regulations 2010 MGN 559 (M+F) Merchant Shipping Fishing Vessels (Health and Safety at work)(Electromagnetic Fields) Regulations 2016
22.2.2.6.2	ISO 15085: 2003 Small Craft – Man overboard prevention and recovery
Section 23 – Medical Care	
23.1.1	MSN 1905 (M+F) Amendment 1 application of ships' medical stores regulations 1995
23.2.1	MGN 147 (M + F) Training in First Aid and Medical Care for Fishing Vessel Personnel, Boatmaster's Licence Holders and Small Commercial Vessel Personnel
23.3.1.2	The Merchant Shipping (Maritime Labour Convention) (Medical Certification) Regulations 2010 MGN 482 (M) Amendment 1 MLC 2006 - medical care MSN 1886 Amendment 1 MLC, 2006 work in fishing convention, 2007 (ILO No. 188) medical examination system - appointment of approved doctors and medical and eyesight standards
Section 24 – Tenders and Daughter Craft	
24.2.1.1.6	MGN 332 (M+F) Amendment 1 Lifting operations and lifting equipment (LOLER) regulations 2006 MGN 331 (M+F) Amendment 1 provision and use of work equipment (PUWER) regulations 2006
24.2.3.1.7	MGN 332 (M+F) Amendment 1 Lifting operations and lifting equipment (LOLER) regulations 2006 MGN 331 (M+F) Amendment 1 provision and use of work equipment (PUWER) regulations 2006
Section 25 – Cargo Carrying, Lifting, High Speed and Bow Push Up Operations	
25.2.1.1.	Code of safe working practices for merchant seafarers (COSWP) amendment 6 2021
25.2.1.1.3	MGN 332 (M+F) Amendment 1 Lifting operations and lifting equipment (LOLER) regulations 2006
25.2.1.1.4	BS 7121-2-4: 2013 Code of practice for the safe use of cranes – Inspection, maintenance and thorough examination. Loader cranes
25.2.3.3.	BS 7121 Code of practice for safe use of cranes BS EN 13852-1: 2021 Cranes. Offshore cranes – Part 1. General-purpose offshore cranes BS EN 13852-2: 2004 Cranes. Offshore cranes BS EN 12999: 2020 Cranes. Loader cranes ISO 9928-1: 2015 Cranes – Crane operating manual – Part 1: General ISO 19354: 2016 Ships and marine technology – Marine cranes – General requirements



25.2.3.4	BS 7121 Code of practice for safe use of cranes. Inspection, Maintenance, and Thorough Examination – Loader Cranes BS EN 13852-1: 2013 Cranes. Offshore cranes – General purpose offshore cranes BS EN 13852-2: 2004 Cranes. Offshore cranes – Floating cranes BS EN 12999: 2020 Cranes. Loader cranes The Provision and Use of Work Equipment Regulations 1998 Code for Lifting Appliances in the Marine Environment, Lloyd's Register
25.3.6	MGN 424 Safety responsibilities on board dive boats
25.4.1	The Merchant Shipping and Fishing Vessels (Control of Vibration at Work) Regulations 2007 MGN 436 (M+F) Amendment 2 whole body vibration - guidance on mitigating against the effects of shocks and impacts on small vessels The Code of Practice for Controlling Risks due to Whole body Vibration on Ships (ISBN No. 9780115530760)
25.4.4	Passenger Safety on Small Commercial High Speed Craft & Experience Rides. A Voluntary Code of Practice for owners, operators, managers, skippers and crew. Issues 3. April 2019
Section 26 – Towing and Non-Self-Propelled Vessels	
26.3.1.6	MGN 592 (M+F) Mooring, towing or hauling equipment on all vessels: safe installation and safe operation Resolution A.765(18) Guidelines on the safety of towed ships and other floating objects including installations, structures and platforms at sea MSC.1.Circ.1175/Rev.1 Revised Guidance on Shipboard Towing and Mooring Equipment The Use of Workboats for Towage – Good Practice Guide, 12/6/16 including the Vessel Stability Annex, 08/18
Section 27 – Dedicated Pilot Boats and Workboats with a Pilot Boat Endorsement	
Table 27.2.3	MGN 50 (M) Manning of pilot boats
Section 28 – Manning	
28.1.4	MSN 1886 Amendment 1 MLC, 2006 work in fishing convention, 2007 (ILO No. 188) medical examination system - appointment of approved doctors and medical and eyesight standards MGN 640 (M+F) Medical fitness requirements for those employed on boats certified under MCA codes of practice, crew of seagoing local passenger vessels and non-seagoing boatmasters
28.2.6.2	MSN 1816 (M+F) Mandatory registration of emergency position indicating radio beacons (EPIRBs)
Section 29 – Carriage and Transfer of Dangerous Goods	
29.1.2	MGN 497 (M+F) Dangerous goods - including chemicals and other materials - storage and use on board ship
29.1.5	The Merchant Shipping (Dangerous Goods and Marine Pollutants) Regulations 1997
29.7.3	MGN 407 Procedure for the testing of fire protection for use with composite and wooden constructions
29.7.4	Resolution MSC.307(88) (adopted on 3 December 2010) International Code for Application of Fire Test Procedures, 2010 (2010 FTP Code). Part 11 Test for fire-resisting divisions of high-speed craft
29.9.1	MSN 1905 (M+F) Amendment 1 application of ships' medical stores regulations 1995



29.10.1.8.2	BS EN 13765: 2018 Thermoplastic multi-layer (non-vulcanized) hoses and hose assemblies for the transfer of hydrocarbons, solvents and chemicals. Specification BS EN 857: 2015 Rubber hoses and hose assemblies – Wire braid reinforced compact type for hydraulic applications – Specification
Section 30 – Prevention of Pollution	
30.1.1	The Merchant Shipping (Port Waste Reception Facilities Regulations) 2003 (SI 2003/1809), as amended MGN 563 (M+F) Amendment 1 Port waste reception facilities and management planning
30.2.1	The Merchant Shipping (Prevention of Pollution by Sewage from Ships) Regulations 2020 (MARPOL Annex IV), (SI 2020/620) MGN 631 (M+F) The merchant shipping (Prevention of pollution by sewage from ships) regulations 2020
30.3.1	The Merchant Shipping (Prevention of Pollution by Garbage from Ships) Regulations 2020 (MARPOL Annex V), (SI 2020/621) MGN 632 (M+F) Amendment 1 The merchant shipping (prevention of pollution by garbage from ships) regulations 2020
30.4.1	The Merchant Shipping (Anti-fouling Systems) Regulations 2009 (SI 2009 No. 2796) as amended MGN 398 (M+F) Merchant shipping (anti-fouling systems) regulations 2009
30.5.1	MSN 1819 The merchant shipping (prevention of air pollution from ships) regulations 2008 MSN 1819 Amendment 1 (M+F) Prevention of air pollution from ships
30.6.1	The Merchant Shipping (Prevention of Oil Pollution) Regulations 2019 (SI 2019 No. 42), as amended
Section 31 – Safety Management	
31.3.2	Resolution MSC.428(98) (adopted on 16 June 2017) Maritime Cyber Risk Management in Safety Management Systems BS EN IEC 61162-460: 2018+ A1: 2020 Maritime navigation and radiocommunication equipment and systems. Digital interfaces – Multiple talkers and multiple listeners. Ethernet interconnection. Safety and security BS EN IEC 63154: 2021 Maritime navigation and radiocommunication equipment and systems. Cybersecurity. General requirements, methods of testing and required test results
Appendix 2A – Liquid Petroleum Gas Installation for Domestic Marine Use	
1.1	ISO 10239: 2014 Small craft – Liquefied petroleum gas (LPG) systems
2.5	BS EN IEC 60079-14: 2019 Explosive atmospheres
Appendix 5 – Safe Manning	
1.1	The Merchant Shipping (Standards of Training, Certification and Watchkeeping) Regulations 2015, as amended The Merchant Shipping (Safe Manning, Hours of Work and Watchkeeping) Regulations 1997
Table A5.1 Note 1	MGN 411 Training and certification requirements for the crew of fishing vessels and their applicability to small commercial vessels and large yachts
Table A5.1 Note B	MSN 1853 (M) Amendment 1: Boatmasters' Qualifications, Crew and Hours of Work
Table A5.1 Note E	MSN 1858 (M+F) UK requirements for deck officers on large yachts (over 24m)



Table A5.1 Note G	MGN 496 (M+F) Certificate of competency for master workboat less than 500 GT unlimited
Table A5.3 Note B	MIN 503 (M) Training for ECDIS as Primary Means of Navigation
Appendix 8 – Safety Management System	
3.1	Code of safe working practices for merchant seafarers (COSWP) amendment 6 2021 (Chapter 1)
11.2	MGN 564 (M+F) Marine casualty and marine incident reporting
Battery-Hybrid and Battery-Electric Vessels Annex	
1.2.3	ISO 12217-1: 2015 Small craft – Stability and buoyancy assessment and categorization – Part 1: Non-sailing boats of hull length greater than or equal to 6 m (6.1.2)
2.2.2	BS EN 62619: 2017 Secondary cells and batteries containing alkaline or other non-acid electrolytes. Safety requirements for secondary lithium cells and batteries, for use in industrial applications BS EN 62620: 2015 Secondary cells and batteries containing alkaline or other non-acid electrolytes. Secondary lithium cells and batteries for use in industrial applications
2.2.3	BS EN 62619: 2017 Secondary cells and batteries containing alkaline or other non-acid electrolytes. Safety requirements for secondary lithium cells and batteries, for use in industrial applications BS EN 62620: 2015 Secondary cells and batteries containing alkaline or other non-acid electrolytes. Secondary lithium cells and batteries for use in industrial applications
2.3.3	ISO 16315: 2016 Small craft – Electric propulsion system BS 8450: 2006 Code of Practice for Installation of Electrical and Electronic Equipment in Ships BS EN 60092-507: 2015 Electrical installations in ships – Part 507 – Small vessels
2.5.4	MGN 550 (M+F) Electrical installations - Guidance for safe design, installation and operation of lithium-ion batteries
2.6.3	BS EN IEC 60079-14: 2019 Explosive atmospheres – Part 14. Electrical installations design, selection and erection
Remotely Operated Unmanned Vessels Annex	
5.2.1	The International Regulations for Preventing Collisions at Sea 1972
5.6.1.2	MSC.1/Circ.1580 Guidelines for Vessels and Units with Dynamic Positioning (DP) Systems
6.1.1	The Merchant Shipping and Fishing Vessels (Health and Safety at Work) Regulations 1997
6.4.2	MSN 1905 (M+F) Amendment 1 application of ships' medical stores regulations 1995
7.5.4.4	The Radio Equipment Directive (RED) (EU CE marking directives) MGN 331 (M+F) Amendment 1 provision and use of work equipment (PUWER) regulations 2006
8.6.3	MSC.1/Circ.1512 Guideline on Software Quality Assurance and Human-Centred Design for E-Navigation BS EN 61508-3: 2010 Functional safety of electrical/electronic/programmable electronic safety-related systems – Software requirements (Reuse of pre-existing software elements to implement all or part of a safety function) BS EN 61508-4: 2010 Functional safety of electrical/electronic/programmable electronic safety-related systems – Definitions and abbreviations



	<p>BS EN 61508-5: 2010 Functional safety of electrical/electronic/programmable electronic safety-related systems – Examples of methods for the determination of safety integrity levels</p> <p>ISO 17894: 2005 Ships and marine technology – Computer applications – General principles for the development and use of programmable electronic systems in marine applications</p> <p>BS ISO/IEC 15026-3: 2015 Systems and software engineering. Systems and software assurance. System integrity levels</p>
8.6.7	BS EN 61508 : 2010 Functional safety of electrical/electronic/programmable electronic safety-related systems
8.6.8	BS EN 61508 : 2010 Functional safety of electrical/electronic/programmable electronic safety-related systems



More Information

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