



Maritime &
Coastguard
Agency

SURVEYOR TECHNICAL COMPETENCIES

For Marine Surveyor Development Scheme

Recent Amendments

Most recent amendments show below, previous amendments are shown in Document Amendment History.

Version Number	Status / Change	Date	Author Reviewer	Content Approver	Next Review Date/Expiry Date

Recruitment

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SURVEYOR TECHNICAL COMPETENCIES
For Marine Surveyor Development Scheme (MSDS)

1.0 Introduction

This set of competencies applies to survey staff in marine offices.

The minimum working competence level for all competencies is Level 2. Individual surveyor may hold competence Level 3 & 4 depending on qualifications and experience. See Section 2 for definitions of Level Statements.

This document is reproduced for the purposes of recruitment and has been edited.

Should the need arise, the latest version should be consulted.

2.0 Level Statements

Level	Description
Level 1	<p>The jobholder needs to have knowledge of the key principles but is not expected to apply the knowledge in detail.</p> <p>[The surveyor has theoretical knowledge only, gained during academic qualification. Alternatively, the surveyor may have no qualification but some practical experience.]</p>
Level 2	<p>The jobholder has to have a good grasp of the fundamentals of the areas of knowledge but needs to refer to other sources for detailed information when required to deal with other than the most straightforward situations. Supervision and guidance from more experienced colleagues is expected.</p> <p>[The surveyor has enough industrial experience which backs up theoretical knowledge to meet MCA needs. The surveyor is able to demonstrate application of theoretical and practical knowledge to MCA survey situations. This represents the minimum level for a trained MCA surveyor who can work independently but needs to refer to others when encountering unusual situations.]</p>
Level 3	<p>The jobholder needs to have built on basic knowledge and experience of a range of applications and deals with the majority of situations encountered on own initiative.</p> <p>[The surveyor has enough practical experience after training to deal with most MCA survey situations without reference to others. This is the expected level when a trained surveyor has gained significant survey experience.]</p>
Level 4	<p>The jobholder needs to consistently apply a detailed knowledge and experience and is an acknowledged source of guidance and advice in the most difficult and complex areas.</p> <p>[The surveyor has experience and/ or academic qualifications in excess of MCA requirements in a particular field. Alternatively, the surveyor can demonstrate a depth of knowledge in a particular technical area or through extensive experience of a wide variety of survey situations and is therefore a source of information for others. In either case, the surveyor should be able to demonstrate an ability to apply experience to new situations or technical challenges.]</p>

3.0 Underpinning Competencies

Unless otherwise specified, all underpinning competencies refer to seagoing commercial ships.

Demonstrate an...		by being...
understanding of stability theory	1	able to explain the following: <ul style="list-style-type: none"> • displacement and buoyancy • hydrostatics including centres of floatation • the use of cross curves and Righting Lever (GZ) in transverse stability • longitudinal stability • inclining test theory • free surfaces • the principles of flooding of a compartment. • the principles of intact and damage stability standards
understanding of marine structural design and assessment on small vessels	2	able to: <ul style="list-style-type: none"> • summarise the classification and statutory requirements for hull structural integrity • explain the basic structural concepts of a ship's hull • define the general parts of a vessels structure • describe general construction methods for steel, aluminium, composite & Wood • predict the areas of structural weakness • identify examples of different construction techniques
understanding of the factors influencing the design and operation of ships of various types	3	able to: <ul style="list-style-type: none"> • explain the main design parameters for vessels of different types from convention to inland waterways vessels • recall examples of different ship types • express example commercial effects of design parameters on particular ship types.
understanding of marine engineering, electrical, electronic and control engineering theory in vessels of various size and complexity	4	able to: <ul style="list-style-type: none"> • explain the function of engine room equipment and systems appropriate to inspection of convention vessels • identify potential problem areas/ faults in machinery spaces of ships.

Demonstrate an...		by being...
		<ul style="list-style-type: none"> • recognise different types of propulsion systems. • explain fundamental principles of typical machinery space systems including cooling, control systems, steam plant. • recall or predict similar equipment in small vessels and their likely problem areas or faults
understanding of the principles of the safe operation of large commercial ships	5	able to outline: <ul style="list-style-type: none"> • the functions and operations onboard ship as defined in the International Safety Management (ISM) Code from experience of its operation • the broad functions and responsibilities of officers and crew
understanding of the use of mandatory ships equipment on ships	6	able to: <ul style="list-style-type: none"> • recognise mandatory equipment and its purpose and limitations • predict likely faults and repairs to the equipment • explain maintenance and servicing of equipment.
understanding of seafarer standards as applied to seagoing commercial vessels (except Fishing Vessels (FV))	7	able to: <ul style="list-style-type: none"> • summarise the principles of Standards of Training, Certification and Watchkeeping for Seafarers (STCW) • summarise domestic application of manning requirements.
understanding of shipboard health safety and welfare for large commercial ships – Maritime Labour Convention (MLC), Code of safe working practices for merchant seafarers (COSWP), Medical care	8	able to: <ul style="list-style-type: none"> • outline the requirements set out in MLC 2006 • how the H&S aspects of MLC are applied onboard ship • recall the main subjects covered by COSWP and their use on board ship.
Understanding of the principles of environmental protection	9	able to: <ul style="list-style-type: none"> • outline the main requirements of each annex of The International Convention for the Prevention of Pollution from Ships (MARPOL) • outline the principles of the Ballast Water Convention • outline the principles of the Antifouling Convention

Demonstrate an...		by being...
understanding of the structure of maritime legislation and UK maritime law	10	able to: <ul style="list-style-type: none"> • outline how maritime requirements are developed internationally • outline how the international requirements are applied in the UK • recognise the different forms of requirements and guidance (e.g. M notices) • outline the sources of domestic requirements applied to small vessels.
understanding and application of bridge operation of seagoing commercial ships	11	able to: <ul style="list-style-type: none"> • recognise and state the function of bridge equipment • summarise the processes used in safe navigation • the equipment and processes used in navigating a ship • the factors influencing a ship's ability to manoeuvre • the equipment and processes used in emergency situations • the principles of the Convention on the International Regulations for Preventing Collisions at Sea (COLREGS), The International Convention for the Safety of Life at Sea (SOLAS) Chapter V and STCW.
understanding cargo handling and stowage for large commercial ships	12	able to: <ul style="list-style-type: none"> • recognise the different means of cargo stowage in a range of ship types • summarise the commercial limitations of cargo handling • identify general safety related issues in cargo handling, including tankers.
understanding inspection maintenance and repair in steel	13	able to: <ul style="list-style-type: none"> • summarise the classification and statutory requirements for hull structural integrity • explain the basic structural concepts of a ship's hull • know how to inspect structure for damage and defects using specific tried and tested techniques • explain the need for thickness measurements • explain the role played by coatings and anodes

Demonstrate an...		by being...
		<ul style="list-style-type: none"> • know the difference between various grades of shipbuilding steel • discuss repair techniques with confidence • relate the above to experience of practical cases.
understanding radio communications in large commercial ships	14	<p>able to:</p> <ul style="list-style-type: none"> • summarise the radio functional requirements for different vessel types and sea areas • outline the strengths and weaknesses of different types of communication.
understanding of Fishing Vessel types, design arrangements and operations	15	<p>able to:</p> <ul style="list-style-type: none"> • outline the principles of the Torremolinos Convention / Cape Town Agreement • identify the technical standards & certification applied to fishing vessels • outline different fishing methods • recognise types of vessels used for these methods • recognise different types of fishing gear and outline their use • describe typical fishing vessel operational cycles.
understanding of seafarer standards in relation to Fishing Vessels	16	<p>able to:</p> <ul style="list-style-type: none"> • outline the principles of the Work in Fishing Convention ILO 188 • outline the FV legislation on Health and Safety (H&S) • outline FV legislation on certification and training of crew.
understanding of small commercial vessel types, design, arrangements and operations	17	<p>able to:</p> <ul style="list-style-type: none"> • recognize the different roles of small commercial vessels • explain how this affects their design and construction • identify the technical standards applied to small commercial vessels.

4.0 General Competencies

General competencies apply to more than one task.

Demonstrate an...		by being...
understanding of Survey Process in MCA	1	able to explain and apply the following: <ul style="list-style-type: none"> • use of Instructions to Surveyors (ItoS) MSIS23 • use of aide memoires • calculation of fee estimates • work Orders and Numbers • file record keeping • completion of survey reports • the application of statutory deficiencies
understanding of Inspection Process in MCA	2	able to explain and apply the following: <ul style="list-style-type: none"> • use of Instructions to Surveyors MSIS 38 • use of aide memoires • file record keeping • completion of inspection reports • the application of statutory and convention deficiencies
understanding of Audit process in MCA	3	able to explain and apply the following: <ul style="list-style-type: none"> • use of Instructions to Surveyors MSIS 37 • use of aide memoires • calculation of fee estimates • job control sheets • file record keeping • completion of audit reports • raising and clearing Non-Conformity Notes (NCN's).
understanding of Oral Examinations Process	4	able to explain and apply the following: <ul style="list-style-type: none"> • use of Oral Examination Code of practice • issuing Notice of Eligibility (NOEs) • examination technique • record keeping.
understanding MCA Enforcement Practices	5	able to explain and apply the following: <ul style="list-style-type: none"> • surveyor and inspector powers and roles within Merchant Shipping Act (MSA) 1995 • application of powers to Prohibition Notice (PN)/Improvement Notice (IN) • completion of PN/IN forms • use of detention powers • completion of detention forms and records • detention reports • the use of arbitration

Demonstrate an...		by being...
		<ul style="list-style-type: none"> • initial investigations and recovery of evidence • access to ships and sites
understanding of Deficiency Finding and recording in MCA	6	<p>able to explain and apply the following:</p> <ul style="list-style-type: none"> • nature of statutory and convention deficiencies • practical application of wording on survey and inspection reports • wording of deficiencies • deficiency and action codes • follow up action • close out.
understanding of Professional Comms for surveyors	7	<p>able to explain and apply the following:</p> <ul style="list-style-type: none"> • civil service code • PSC code of conduct • personal safety • avoiding confrontational situations • how to give bad news • communication with ships officers and crew • getting out of confrontational situations.
understanding of Personal Health and Safety (H&S) for surveyors	8	<p>able to explain and apply the following:</p> <ul style="list-style-type: none"> • MCA risk assessment system • use of MCA safe working practices MSIS 30 • MCA accident and near miss reporting • learning from feedback • specific Risk assessments made locally • reporting H&S issues in MCA • use of dynamic risk assessment • best use of MCA PPE
understanding of Case management in MCA	9	<p>able to explain and apply the following:</p> <ul style="list-style-type: none"> • the need for public records • what needs to be recorded and how to do it in MCA • use of Pelorus; SharePoint and electronic platforms • how to maximise efficient completion of records.
understanding of structural condition assessment and repair in steel.	10	<p>able to explain and apply the following for vessels of all sizes:</p> <ul style="list-style-type: none"> • hull survey techniques • ultrasonics and diminution allowances • types of welding and preparation

Demonstrate an...		by being...
		<ul style="list-style-type: none"> • welding standards • working with Class • appreciate the process of fatigue • identify specific types of defects and damage and understand their causes • quantify coatings breakdown and anode wastage • apply different repair techniques for specific defects and damage to prevent re-occurrence. <p>and be able to apply the above to hull surveys in steel.</p>
understanding of stability assessment	11	<p>able to explain and apply the following:</p> <ul style="list-style-type: none"> • inclining test principles • issues affecting accuracy of inclining tests • MCA stability approval process • lightship survey testing and reporting procedures • heel test procedure and reporting • roll test procedure and reporting • simplified stability assessment for small vessels • contents of stability books and able to recognize various stability standards and the types of vessels to which they apply.
understanding of MCA Plan Approval Process (including systems of type approval)	12	<p>able to explain and apply the following:</p> <ul style="list-style-type: none"> • use of instructions to surveyors MSIS 9 • approval techniques • working with operators and Class • recording plan approval.
understanding of SOLAS Chapter II-1 Engineering & Electrical	13	<p>able to explain and apply the following:</p> <ul style="list-style-type: none"> • the principles employed within the chapter and use Survey Certification Management System (SCMS) to recognise issues of compliance.
understanding of SOLAS Chapter II-2 Fire Protection	14	<p>able to explain and apply the following:</p> <ul style="list-style-type: none"> • the principles employed within the chapter and use SCMS to recognise issues of compliance.
understanding of SOLAS Chapter III Life Saving Appliance (LSA)	15	<p>able to explain and apply the following:</p> <ul style="list-style-type: none"> • the principles employed within the chapter and use SCMS to recognise issues of compliance.

Demonstrate an...		by being...
understand and apply SOLAS Chapter IV Radio	16	able to explain and apply the following: <ul style="list-style-type: none"> the principles employed within the chapter and use SCMS to recognise issues of compliance.
understanding of SOLAS Chapter V Safety of Navigation	17	able to explain and apply the following: <ul style="list-style-type: none"> the principles employed within the chapter and use SCMS to recognise issues of compliance.
understanding of SOLAS Ch VI Solid Cargoes Ch VII Part A-1 Dangerous Goods (DG) in solid bulk – International Maritime Solid Bulk Cargoes (IMSBC) (also Ch II-2 Reg 19)	18	able to explain and apply the following: <ul style="list-style-type: none"> the principles employed within the chapter and use SCMS to recognise issues of compliance.
understanding of SOLAS Chapter IX - ISM	19	able to explain and apply the following: <ul style="list-style-type: none"> the principles employed within the chapter and use SCMS to recognise issues of compliance.
understanding of SOLAS Chapter X - High Speed Craft (HSC)	20	able to explain and apply the following: <ul style="list-style-type: none"> the principles employed within the chapter and use SCMS to recognise issues of compliance.
understanding of SOLAS Chapter XII - Bulk Carriers	21	able to explain and apply the following: <ul style="list-style-type: none"> the principles employed within the chapter and use SCMS to recognise issues of compliance.
understanding of SOLAS Chapter 1 Certification & Survey	22	able to explain and apply the following: <ul style="list-style-type: none"> the principles employed within the chapter and use SCMS to recognise issues of compliance.
understanding of inspection principles for radioactive, liquid and gas dangerous goods in bulk – SOLAS Ch VII Parts BC,D (MARPOL Annex II – International Bulk Chemical (IBC) Code, International Gas Carrier (IGC) Code and the International Code for the Safe Carriage of Packaged Irradiated Nuclear Fuel, Plutonium and High-Level Radioactive Wastes on board Ships (INF) Code)	23	able to explain and apply the following: <ul style="list-style-type: none"> the principles employed within the chapter and use SCMS to recognise issues of compliance.
understanding of inspection principles of MARPOL. MARPOL Annex I plus Annex IV Sewage, Annex V Garbage, Annex VI Air Pollution, Anti Fouling Convention,	24	able to explain and apply the following: <ul style="list-style-type: none"> the principles employed within the chapter and use SCMS to recognise issues of compliance.

Demonstrate an...		by being...
Bunker Convention. All as applied to inspection.		
understanding of STCW	25	able to explain and apply the following: <ul style="list-style-type: none"> • the principles employed within the chapter and use SCMS to recognise issues of compliance.
understanding of the work and requirements of registration	26	able to explain and apply the following: <ul style="list-style-type: none"> • the structure of the ship register (parts) • general application process requirements • working with Registry of Shipping and Seamen (RSS) • application to newbuildings • application to change of flag • pre change of flag surveys • flag in panel.
understanding of SOLAS Ch XI International Ship and Port Facility Security (ISPS)	27	able to explain and apply the following: <ul style="list-style-type: none"> • the principles employed within the chapter and use SCMS to recognise issues of compliance.
understanding of Load Line and Tonnage Conventions	28	able to explain and apply the following: <ul style="list-style-type: none"> • the principles employed within the chapter and use SCMS to recognise issues of compliance. Implications of failure of weathertight integrity on various ship types • the principles applied to weathertight openings • fault finding in weathertight closures.
understanding of EU requirements on UK legislation	29	able to explain and apply the following: <ul style="list-style-type: none"> • EU domestic passenger vessel structure • UK derogation • inland waterways • workings of European Maritime Safety Agency (EMSA) • other applicable directives (Low Sulphur etc).
understanding of SOLAS Ch VII Part A – Packaged DG – International Maritime Dangerous Goods (IMDG) Code, MARPOL Annex III	30	able to explain and apply the following: <ul style="list-style-type: none"> • the principles employed within the chapter and use SCMS to recognise issues of compliance.
understanding of small steel boat construction	31	able to explain and apply the following: <ul style="list-style-type: none"> • identify parts of structure of small boats • explain construction techniques

Demonstrate an...		by being...
		<ul style="list-style-type: none"> • explain repair methods applied to small vessels • prepare hull survey reports using experience
understanding of small fibre reinforced plastic (FRP) boat construction	32	able to explain and apply the following: <ul style="list-style-type: none"> • identify parts of structure of small boats • explain construction techniques • explain repair methods applied to small vessels • prepare hull survey reports using experience.
understanding of small wooden boat construction	33	able to explain and apply the following: <ul style="list-style-type: none"> • identify parts of structure of small boats • explain construction techniques • explain repair methods applied to small vessels • prepare hull survey reports using experience • survey techniques used.
understanding of UK FV Legislation	34	able to explain and apply the following: <ul style="list-style-type: none"> • the principles employed within the legislation and codes and use SCMS to recognise issues of compliance.
understanding of Torremolinos Convention / Cape Town Agreement and Directive 97/70/EC	35	able to explain and apply the following: <ul style="list-style-type: none"> • the principles employed within the convention and use SCMS to recognise issues of compliance.
understanding of MARPOL (all annexes except Annex II, III) for FV (Initial, Periodical & Renewal Surveys)	36	able to explain and apply the following: <ul style="list-style-type: none"> • the principles employed within the annex and use SCMS to recognise issues of compliance.
understanding of large yacht code	37	able to explain and apply the following: <ul style="list-style-type: none"> • the principles employed within the code and use SCMS to recognise issues of compliance.
understanding of Small Commercial Vessel Codes	38	able to explain and apply the following: <ul style="list-style-type: none"> • the principles employed within the MGN and various Codes and use SCMS to recognise issues of compliance.
understanding of HSC Code, UK regs and guidance	39	able to explain and apply the following: <ul style="list-style-type: none"> • the principles employed within the code and use SCMS to recognise issues of compliance.

Demonstrate an...		by being...
understanding of the requirements of MGN 636 and MGN 587 (H&S)	40	able to explain and apply the following: <ul style="list-style-type: none"> the principles employed within the MGN and use SCMS to recognise issues of compliance.
understanding of the requirements of MCA construction and outfit standards for fishing vessels under 24m	41	able to explain and apply the following: <ul style="list-style-type: none"> the principles applied by MCA construction and outfit standards for fishing vessels under 24m the survey processes applied by MCA.
understanding of International Labour Organisation (ILO) 188 Work In Fishing Convention (MLC equivalent for FV)	42	able to explain the following: <ul style="list-style-type: none"> use of instructions to surveyors MSIS 46 the principles employed within the Convention and use SCMS to recognise issues of compliance.
understanding of MS(Mandatory surveys for ro-ro ferry and High Speed Craft Code) regulations 2001, SI 2001/152 and 2017/2110 Directive	43	able to explain the following: <ul style="list-style-type: none"> the principles employed within the MGN and use of SCMS to recognise issues of compliance the principles employed within the Directive and use SCMS to recognise issues of compliance the relevant Paris Memorandum of Understanding (MoU) instructions: 52/2019/05 on Operational Controls and 49/2016/11 power failure simulations MSF 1710 and associated arbitration process for prevention of operation notices associated technical annexes within form MSF 5514 the links to Port State Control (PSC) directive and records required and apply the above in practical situations.
understanding of requirements for UK Domestic Passenger Vessels (DPV).	44	able to explain the following: <ul style="list-style-type: none"> various SI's applicable to existing Class III-VI(A) application of EU directive to seagoing DPVs principles and application of MGN 1823 and experience of Passenger numbers and SAR Plan regs principles and application of Small Seagoing Passenger Ship (SSPS) Code UK/EU training and manning requests for domestic vessels

Demonstrate an...		by being...
		<ul style="list-style-type: none"> • Domestic Safety Management Code and its application.
understand the UK marine occupational health requirements	45	able to explain the following: <ul style="list-style-type: none"> • the requirements for noise, vibration, carcinogens and H&S at work.
understanding of the Ballast Water Convention	46	able to explain the following: <ul style="list-style-type: none"> • explain the principles of the convention and its application to UK vessels • be able to apply the convention during inspections of UK and foreign vessels.

5.0 Specific Competencies

Specific competencies apply to only one task.

Demonstrate an...	Comp No.	by being...	MSDS Task	MSDS Task No.
Understanding of UK Load Line Exemption	1	Captured in General Competencies number 28	UK Load Line Exemption	2.01
Understanding of Domestic Passenger Vessels (DPV) Survey and Inspection	2	Captured in General Competencies number 44	Domestic Passenger Vessels (DPV) Survey & Inspection	2.02
Understanding of requirements for a Tonnage Small Vessels survey (<24m)	3	<p>able to explain and apply the following:</p> <ul style="list-style-type: none"> the Merchant Shipping (Fishing Vessels – Tonnage) Regulations MIN 621 (M) – Tonnage Measurement on UK Ships: Authorised Organisations MGN 527 (M) – Tonnage Measurement: Multihulls under 24m Load Line Length use SCMS to help recognise issues of compliance. 	Tonnage Small Vessels Survey (<24m)	2.03
Understanding the ISPS Code for Ships	4	<p>able to explain and apply the following:</p> <ul style="list-style-type: none"> the application of a Ship Security Plan use SCMS to help recognise issues of compliance. 	ISPS Plan Approval	2.04
Understand approval and monitoring in MCA	5	<p>able to explain and apply the following:</p> <ul style="list-style-type: none"> Merchant Navy Training Board (MNTB) and IMO Model course criteria MCA process for approvals MCA process for monitoring and reporting. 	Approval and monitoring STCW & ISPS Training in UK	2.05

Demonstrate an...	Comp No.	by being...	MSDS Task	MSDS Task No.
Understanding of PSC requirements	6	able to explain and apply the following: <ul style="list-style-type: none"> • Paris MoU requirements • Merchant Shipping (MS) (Port State Control) Regulations 2011, SI 2011/2601 as amended • MSN 1832 1825 containing all technical annexes to the directive • use SCMS to help recognise issues of compliance • MCA processes for recording and reporting PSC inspections. 	Port State Control Inspection	2.06
Understanding of under 15m FV Inspection and MSN 1871.	7	able to explain and apply the following: <ul style="list-style-type: none"> • the principles employed within the MSN • use SCMS to help recognise issues of compliance. 	Fishing Vessel Inspection Under 15m	2.07
Understanding of 15-24m FV's survey & inspection and MSN 1872	8	able to explain and apply the following: <ul style="list-style-type: none"> • the principles employed within the MSN • use SCMS to help recognise issues of compliance. 	FV 15-24m Survey and Inspection	2.08
Understanding Class IX(A) legislation	9	able to explain and apply the following: <ul style="list-style-type: none"> • the principles employed within the SIs • use SCMS to help recognise issues of compliance. 	Comm River/Inland Waterway (Class IX(A)) Inspection	2.09
Understanding of the Chain Ferry Code	10	able to explain and apply the following: <ul style="list-style-type: none"> • the principles employed within the Code • use SCMS to help recognise issues of compliance • the legal background to application of the Code 	Chain Ferry Survey and Inspection	2.10

Demonstrate an...	Comp No.	by being...	MSDS Task	MSDS Task No.
Understanding of requirements under Special Purpose Ship (SPS) Code	11	able to explain and apply the following: <ul style="list-style-type: none"> the application of the SPS Code use SCMS to help recognise issues of compliance. 	Special Purpose Ships (SPS) Survey	2.11
Understand DG inspection process	12	able to explain and apply the following: <ul style="list-style-type: none"> reasons for methods of inspection application of DG Code typical compliance issues and methods of enforcement. 	Packaged Dangerous Goods / CTU Inspection	2.12
Understanding of Ro Ro EU Ferry Inspection requirements	13	able to explain and apply the following: <ul style="list-style-type: none"> EU Directive On a System of Inspections for the Safe Operation of Ro-Ro Passenger Ships and High-Speed Passenger Craft in Regular Service and Amending Directive 2009/16/EC use SCMS to help recognise issues of compliance. 	Passenger Ro-Ro Ships and High-Speed Passenger Craft Regular Service Inspection	2.13
Unused				2.14
Understanding of bulk carrier terminal inspections requirements	14	able to explain and apply the following: <ul style="list-style-type: none"> Bulk Carrier Code including safe loading and unloading regulations use SCMS to help recognise issues of compliance. 	Bulk Carrier Terminal Inspection	2.15
Understanding of UK Authorised Marine Equipment inspections	15	able to explain and apply the following: <ul style="list-style-type: none"> EU MED directive and UK authorised equipment guidance use SCMS to help recognise issues of compliance. 	UK Authorised Marine Equipment Directive Inspections	2.16

Demonstrate an...	Comp No.	by being...	MSDS Task	MSDS Task No.
Understand life-raft service station inspections	16	able to explain and apply the following: <ul style="list-style-type: none"> SOLAS requirements MCA policy on inspections reporting process. 	Life-raft Service Station Inspections	2.17
Understand Port Waste Regulations	17	able to explain and apply the following: <ul style="list-style-type: none"> use port waste regulation in port visits links to Port Waste Management Plan (PWMP) approvals reporting process. 	Port Waste Port Inspections & Plan Approvals	2.18
Understanding of the Port Marine Safety Code (PMSC)	18	able to explain and apply the following: <ul style="list-style-type: none"> the application of the PMSC Code use SCMS to help recognise issues of compliance. 	Port Marine Safety Code-Port Visits	2.19
Understand UK Passenger Ship Regulations	19	able to explain and apply the following: <ul style="list-style-type: none"> MS (Passenger Ship Construction: Ships of Classes I, II and II(A)) SI 1998/2514, guidance and HSSC EU Directive 2009/45 as amended MS (Fire Protection) Regulations SI 2003/2950 and guidance MS (Life-Saving Appliances and Arrangements) Regulations SI 2020/0501 and guidance use SCMS to help recognise issues of compliance. 	PSSC I, II, II(A), EUA Survey	2.20
Understanding of the requirements for HSC	20	able to explain and apply the following: <ul style="list-style-type: none"> Dynamically Supported Craft (DSC) Code hovercraft requirements equivalent arrangements for HSC HSC Codes and requirements use SCMS to help recognise issues of compliance. 	High Speed Craft & PTO Survey	2.21

Demonstrate an...	Comp No.	by being...	MSDS Task	MSDS Task No.
Understanding of requirements for a DG DOC Survey	21	able to explain and apply the following: <ul style="list-style-type: none"> • application of DG equipment requirements • understanding differing certification requirements dependent on ship type and age • IMDG Code requirements • use SCMS to help recognise issues of compliance. 	Dangerous Goods Documents of Compliance (DOC) Survey	2.22
Understand EERV Standby-code	22	able to explain and apply the following: <ul style="list-style-type: none"> • MCA application of EERV code applicable to vessel age • use SCMS to help recognise issues of compliance. 	Emergency Response & Rescue Vessels (ERRV) Survey	2.23
Understanding the requirements of the Small Commercial Vessels (SCV) Code	23	able to explain and apply the following: <ul style="list-style-type: none"> • application of Code Vessel requirements • use of SCMS to help recognise issues of compliance. 	Code Vessels Survey or inspection <24m	2.24
Understanding of >24m Classed FV's survey & inspection, Unclassed Inspection and MSN 1873	24	able to explain and apply the following: <ul style="list-style-type: none"> • application of regulations and intent • use SCMS to help recognise issues of compliance. 	Fishing Vessels >24m Classed Survey and inspections (Inc unclassified inspection)	2.25
Understanding hull and machinery Survey for unclassified vessels >24-metres	25	able to explain and apply the following: <ul style="list-style-type: none"> • MCA policy and guidance on hull surveys as equivalent to Class • MCA policy and guidance on machinery surveys as equivalent to Class. 	Hull & Machinery Survey >24m	2.26
Understanding the certification process for MARPOL	26	be able to explain and apply the following: <ul style="list-style-type: none"> • follow UK and HSSC survey requirements • explain the principles of operation of MARPOL equipment 	International MARPOL Survey >400GT	2.27

Demonstrate an...	Comp No.	by being...	MSDS Task	MSDS Task No.
		<ul style="list-style-type: none"> use appropriate survey techniques record and issue appropriate certification MARPOL Annex I – VI requirements use SCMS and other sources to determine any exemptions and equivalences. 		
Understand deck oral exam standards	27	able to explain and apply the following: <ul style="list-style-type: none"> Deck Seafarer Education, Training and Cert examination of Deck OOW (list 1) examination of Ch Mate (list 2) examination of Master (list 3) examination of Deck Fishing (list 4). (see Deck Orals – Nautical Examiner section for lists)	Deck Oral Exams	2.28
Understand a knowledge of engine oral standards	28	able to explain and apply the following: <ul style="list-style-type: none"> engine Seafarer Education, Training and Cert examination of Eng OOW (list 5) examination of 2nd Eng (list 6) examination of Ch Eng (list 7) examination of Eng Fishing (list 8) running a steam propulsion system examination of MEOL (see Deck Orals – Nautical Examiner for lists)	Engine Oral Exams	2.29
Understand a knowledge of electrical engineer oral standards	48	able to explain and apply the following: <ul style="list-style-type: none"> engine Seafarer Education, Training and Cert (see Electrical Deck Orals – Nautical Examiner for lists)	Electrical engineer Oral Exams	2.48
Understanding of local knowledge	29	able to explain and apply the following: <ul style="list-style-type: none"> BML system and syllabus. 	Boat Masters Licence Exams	2.30

Demonstrate an...	Comp No.	by being...	MSDS Task	MSDS Task No.
Understand UKLAP syllabus	30	able to explain and apply the following: <ul style="list-style-type: none"> UKLAP syllabus MCA guidance on application. 	UKLAP Exam	2.31
Understanding the Large Commercial Yacht Code (LY3)	31	able to explain and apply the following: <ul style="list-style-type: none"> application of the LY3 Code/LY2/LY and REG Code use of SCMS to help recognise issues of compliance. 	Large Yacht Certificate Survey	2.32
Understanding of IMO guidance on Cargo Securing Manual	32	able to explain and apply the following: <ul style="list-style-type: none"> IMO guidance on contents of manuals MCA guidance on approval process. 	Cargo Securing Manuals	2.33
Understanding of requirements for Change of Flag survey	33	able to explain and apply the following: <ul style="list-style-type: none"> use SCMS to help recognise issues of compliance. 	Change of Flag to UK Survey	2.34
Understanding of requirements of Plan Approval for Classed Vessels	34	able to explain and apply the following: <ul style="list-style-type: none"> application of MSIS09 – Approvals use SCMS to help recognise issues of compliance. 	Plan Approval of Classed Vessels (Also requires relevant Survey Eligibility)	2.35
Understanding of requirements of Plan Approval for Unclassed Vessels	35	able to explain and apply the following: <ul style="list-style-type: none"> application of MSIS09 – Approvals use SCMS to help recognise issues of compliance. 	Plan Approval of Unclassed Non-convention Vessel (inc hull and machinery) [Also requires Plan Approval Classed Vessel]	2.36
Understanding UK MARPOL requirements	36	be able to explain and apply the following: <ul style="list-style-type: none"> apply MARPOL Annex I requirements use SCMS and other sources to determine any exemptions and equivalences. 	UK MARPOL Survey	2.37

Demonstrate an...	Comp No.	by being...	MSDS Task	MSDS Task No.
Understanding of ISO 9001 Standard	37	able to explain and apply the following: <ul style="list-style-type: none"> ISO9001 standard to companies and ships apply auditing techniques appropriate to the standard. 	ISO 9001 Audit	2.38
Understanding of ISO 14001 Standard	38	able to explain and apply the following: <ul style="list-style-type: none"> ISO14001 standard to companies and ships apply auditing techniques appropriate to the standard. 	ISO 14001 Audit	2.39
Understanding of International Load Line Survey	39	able to explain and apply the following: <ul style="list-style-type: none"> Load Line regulations and guidance freeboard calculation and marking (ship surveyors) use SCMS to help recognise issues of compliance. 	International & UK Load Line, International Load Line Exemption Survey	2.40
understand the combined certification process for SEC and DG DOC Understanding of SEC Survey requirements	40	able to explain and apply the following: <ul style="list-style-type: none"> survey requirements for SEC including IMO Res A1140(31) HSSC application of DG equipment requirements use SCMS to help recognise issues of compliance. 	SEC & DOC DG Survey	2.41
Understanding of ISM legislation and guidance.	41	able to explain and apply the following: <ul style="list-style-type: none"> MS (International Safety Management (ISM) Code) Regulations SI 2014/1512 EC Reg. 336/2006 as amended for domestic pax vessel and cargo vessels in domestic waters ISM requirements for Document of Compliance (DOC) use SCMS to help recognise issues of compliance. 	ISM Audit	2.42

Demonstrate an...	Comp No.	by being...	MSDS Task	MSDS Task No.
Understand UK MLC requirements	42	able to explain and apply the following: <ul style="list-style-type: none"> the titles and articles of MLC 2006 applicable UK legislation and guidance reporting and deficiency process use SCMS to help recognise issues of compliance. 	MLC Inspection (Survey) & Certification	2.43
Unused				
Unused				
Understanding the ISPS Code for Ships	43	able to explain and apply the following: <ul style="list-style-type: none"> application of the ISPS Code use SCMS to help recognise issues of compliance. 	ISPS Verification	2.44
Understanding of requirements of MO Stability Book Approval in Marine Offices	44	able to explain and apply the following: <ul style="list-style-type: none"> explain the requirements for the contents of stability books for various ship types check and analyse submitted stability information against MCA requirements prepare and/or approve stability information using existing hydrostatic and other data. 	MO Stability Book Approval	2.45
Understanding the requirements of a Work in Fishing inspection	45	able to explain and apply the following: <ul style="list-style-type: none"> The Work in Fishing Convention 2007 ILO 188 use SCMS to help recognise issues of compliance. 	WIFC Inspection	2.46

Demonstrate an...	Comp No.	by being...	MSDS Task	MSDS Task No.
Understanding the requirements of an ITC 69 Tonnage survey	46	able to explain and apply the following: <ul style="list-style-type: none"> the ITC 69 (International Tonnage Convention) use SCMS to help recognise issues of compliance. 	ITC 69 Tonnage Survey	2.47
Understanding of initial investigation on behalf of UK Maritime Investigation Team	47	able to explain and apply the following: <ul style="list-style-type: none"> Railways and Transport Safety Act (RATS) and MSA MCA guidance on taking statements MCA guidance on collecting evidence. 	Enforcement investigation	N/A

Deck Orals – Nautical Examiner

List No 1

Officer of the Watch (OOW)		Level	Syllabus
Deck OOW	STCW II/1	Ships of 500GT and above	MGN 69 “C”
Deck OOW	STCW II/3	Near Coastal Ships under 500GT	MGN 69 “E”
Chief Mate	STCW II/2	Unlimited Ships under 3,000GT	MGN 69 “D”
Chief Mate	STCW II/3	Near Coastal Ships under 3,000GT	MGN 69 “D”
Deck OOW		Yacht <3000 GT Only	MSN 1858 (M+F) Annex B
Boatmaster		Tier 1 & 2	SI 2015/0410 Part 13, MSN 1853 (M)
Master (Code Vessels) less than 200GT	STCW II/2	Code vessels and yachts of less than 200 GT	MSN 1858 (M+F), Annex A

List No 2

Chief Mate		Level	Syllabus
Chief Mate	STCW II/2	Unlimited	MGN 69 “B”
Chief Mate		Less than 3,000GT Near Coastal	MGN 69 “D”
Chief Mate	STCW II/3	Ships under 500GT	MGN 69 “D”
Master	STCW II/2	Near Coastal Ships under 500GT	MGN 69 “D”
Master		More than 3,000GT Near Coastal	
Master	STCW II/2	Unlimited Ships less than 3000GT	MGN 69 “B”
Master		Less than 3,000GT Domestic vessels within a Specified Area	MGN 69 “H”

Master		More than 500GT	MGN 69 "G"
MasterYacht *		more than 500GT	MSN 1858 (M+F) Annex C
MasterYacht *		more than 3,000GT	MSN 1858 (M+F) Annex D

“*” Note that for this section, the surveyor will need to observe separate exams

List No 3

Master		Level	Syllabus
Master	STCW II/2	Master Unlimited	MGN 69 "A"

List No 4

Deck Fishing		Level	Syllabus
Deck Fishing		Class 3	SI 1984/1115
Deck Fishing		Class 2	SI 1984/1115
Deck Fishing		Class 1	SI 1984/1115

Engineer Orals – Engineer Examiner

List No 5

Engineer Officer of the Watch (EOOW) / MEOL		Level	Syllabus
Engineer OOW	STCW III/1	OOW Eng	MGN 69 Appendix B
Engineer OOW (Yacht)	STCW III/3	OOW Yacht	MSN 1859 (M+F) Annex B (Y4)

List No 6

2nd Engineer		Level	Syllabus
2 nd Engineer	STCW III/2	2/E/O Unlimited	MGN 69 Appendix B
2 nd Engineer	STCW III/3	2/E/O Ships less than 6,000kW	MGN 69 Appendix B
2 nd Engineer	STCW III/3	2/E/O Ships less than 3,000kW	MGN 69 Appendix B
2nd Engineer (Yacht)	STCW III/3	2/E/O Ships less than 500T & 3,000kW	MSN 1859 Annex B (Y4)
Chief Engineer (Yacht)	STCW III/3	C/E/O Ships less than 200GT & 1,500kW	MSN 1859 Annex B (Y4)
2 nd Engineer (Yacht)	STCW III/2	2/E/O Ships less than 3,000GT & 3,000kW	MSN 1859 Annex B (Y4)
Chief Engineer (Yacht)	STCW III/2	C/E/O Ships less than 500GT & 3,000kW	MSN 1859 Annex B (Y4)
2nd Engineer (Yacht)	STCW III/2	2/E/O Ships less than 3,000GT & 6,000kW	MSN 1859 Annex B (Y4)

List No 7

Chief Engineer		Level	Syllabus
Chief Engineer	STCW III/2	C/E/O Unlimited	MGN 69 Appendix B
Chief Engineer	STCW III/3	C/E/O Ships less than 6,000kW	MGN 69 Appendix B
Chief Engineer	STCW III/3	C/E/O Ships less than 3,000kW	MGN 69 Appendix B
Chief Engineer (Yacht)	STCW III/2	C/E/O Ships less than 3,000GT & 6,000kW	MSN 1859 Annex B (Y4)
Chief Engineer (Yacht)	STCW III/2	C/E/O Ships less than 3,000GT & 9,000kW	MSN 1859 Annex B (Y4)

List No 8

Chief Engineer (Fishing)		Level	Syllabus
Chief Engineer Fishing		C/E/O Unlimited	SI 1984/1115
Chief Engineer Fishing		2/E/O 6,000kW	SI 1984/1115
Chief Engineer Fishing		2/E/O 3,000kW	SI 1984/1115

Electrical Engineer (ETO)Orals – Electrical Engineer Examiner

List No 9

Electrical Engineer		Level	Syllabus
Electrical Engineer	STCW III/6	Electro-Technical Officers (ETO) Certificate of Competency- Operational Level	MIN-654 Amendment 1 Engineering and ETO Oral examination Syllabus. Annex A MSN 1860(M) Annex C.

6.0 Document Amendment History

Recruitment