HM Coastguard - Technical Competency Framework
Including ARCC Competencies

CORE

 1 ORGANISATION
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 6 NAUTICAL KNOWLEDGE
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 8 CHART & MAP WORK
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10 ENVIRONMENTAL FACTORS

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12 OPRATIONAL SYSTEMS
13 SEARCH

COASTAL OPERATIONS

11 MANAGEMENT
12 SEARCH
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14 DRIVING

AERONAUTICAL

11 AIRCRAFT OPERATIONS
12 AERONAUTICAL ASSET ALLOCATION
13 MEDICAL

MISSION CONTROL CENTRE

11 MISSION CONTROL CENTRE

COMPETENCY INDICATORS

Key to Job Titles	
MOO	Maritime Operations Officer
SMOO	Senior Maritime Operations Officer
SAOO	Senior Aeronauctical Operations Officer
MOS	Maritime Operations Specialist
AOS	Aeronautical Operations Specialist
MOCTR	Maritime Operations Controller
AOCTR	Aeronautical Operations Controller
MOCMDR	Maritime Operations Commander
SCOO	Senior Coastal Operations Officer
COAC	Coastal Operations Area Commander
CODC	Coastal Operations Divisional Commander

Level 0 **No knowledge required**

Level 1 **Overview knowledge**

The jobholder needs to have knowledge of the key principles but is not expected to apply the knowledge in detail.

Level 2 **Basic knowledge**

The jobholder has to have a working knowledge of the subject area 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.

Level 3 **Detailed knowledge**

The jobholder needs to have developed their knowledge and have experience of applying this in a range of situations.Can deal with the majority of situations encountered without supervision. In a supervisory role the individual will be capable of identifying an appropriate response to a scenario.

Level 4 **Specialist**

The jobholder needs to consistently apply detailed knowledge and experience and is a source of guidance and advice in most areas. They are an expert who understands a business process or area and provides verification of correct practice and can explain to other practitioners and lay persons as appropriate.

Level 5 **Technical Authority**

This individual is a subject matter expert who has a comprehensive knowledge of particular subject. The technical authority is authorised to decide whether and how to implement a change request or approve an exception to established procedure. The technical authority understands the underlying policy and is able to assess the implications of any proposed change process.

1 MCA - ORGANISATION

Outcome: To understand the Organisations, mandate and position in the context of government.

Ref No.	Performance Criteria	MARITIME										COASTAL					
		MOO		SMOO		MOS		MOCTR		MOCMDR		SCOO		COAC		CODC	
		Entry	Qual	Entry	F Comp	Entry	F Comp	Entry	F Comp	Entry	F Comp	Entry	Qual	Entry	F Comp	Entry	F Comp
1	Understand the Civil Service and Departmental structure in which the MCA and HM Coastguard operates.	0	2	3	3	3	4	2	3	1	3	0	2	2	3	2	4
2	Understands the roles and responsibilities of the MCA and the delegated powers and responsibilities of the agency and its executives.	0	2	2	3	3	4	3	4	3	4	0	2	3	4	3	4
3	Applies a knowledge of the structure and hierarchy of HMCG.	0	3	3	3	3	4	2	3	3	5	0	3	3	4	3	5
4	Applies an awareness of IMO and of the International Conventions from which HMCG responsibilities and mandate are derived – IAMSAR, SOLAS, UNCLOS, CGA 1925, VTMD EU policy etc	0	2	2	3	3	3	2	4	2	4	0	2	2	3	3	4
5	Understands conventions, MOUs and relationships with OGD incl. MOD, MMO, Borders Agency, Emergency Services etc.	0	2	2	3	3	3	3	4	3	4	0	2	2	3	3	4

2 RESPONSE & CO-ORDINATION

Outcomes: Coastguard Officers are able to categorise and respond to and co-ordinate operational missions.

Ref No.	Performance Criteria	MARITIME										COASTAL					
		MOO		SMOO		MOS		MOCTR		MOCMDR		SCOO		COAC		CODC	
		Entry	Qual	Entry	F Comp	Entry	F Comp	Entry	F Comp	Entry	F Comp	Entry	Qual	Entry	F Comp	Entry	F Comp
1	Applies knowledge of HMCG and others' responsibilities for Coastal and Maritime operations.	0	3	3	4	4	4	1	3	1	4	0	3	3	4	3	4
2	Applies knowledge of incident phase classification and associated actions.	0	3	3	3	3	4	0	3	0	2	0	3	3	3	3	4
3	Applies a knowledge of the status and callout arrangements for Declared and Additional facilities as appropriate.	0	3	3	3	3	4	0	3	0	2	0	3	3	3	2	3
4	Applies knowledge of the duties and responsibilities of the Mission Coordinator.	0	2	2	3	3	4	0	3	0	2	0	2	2	3	2	3
5	Applies knowledge of the duties and responsibilities of the OSC and ACO.	0	2	2	3	3	4	0	3	0	2	0	2	2	4	2	2
6	Applies knowledge of the agreed operating procedures between HM Coastguard and SAR facilities.	0	3	3	3	3	4	0	3	0	2	0	3	3	3	3	4
7	Applies knowledge of the operating procedures, capabilities and limitations of MCA facilities and resources	0	2	2	4	4	4	1	3	1	4	0	2	2	3	2	2
8	Applies knowledge of the operating procedures, capabilities and limitations of Declared Facilities	0	3	3	3	3	4	0	4	0	3	0	3	3	3	2	2

#	Description																
9	Applies knowledge of the organisation for UK Search and Rescue and understands the function and composition of associated committees.	0	2	2	4	4	4	0	3	0	2	0	2	2	3	3	4
10	Understands HMCG's definition of major incident and applies knowledge of declaration criteria.	0	3	3	4	4	4	0	3	0	2	0	3	3	4	3	4
11	Understands other responders' definition of major incident	0	2	2	3	3	4	0	3	0	2	0	2	2	4	3	4
12	Applies knowledge of the command and control structure likely to be put in place when dealing with major incidents declared by HMCG.	0	2	3	4	4	4	0	3	0	2	0	2	2	4	3	4
13	Applies knowledge of the command and control structure likely to be put in place when dealing with major incidents declared by other authorities.	0	2	2	4	4	4	0	3	0	2	0	2	2	4	3	4
14	Applies knowledge of relevant emergency and contingency plans employed by external agencies for their areas of responsibility.	0	1	2	3	3	4	0	3	0	2	0	2	2	3	3	4
15	Applies a knowledge of SAR Reports	0	2	2	3	3	4	0	3	0	2	0	2	2	3	2	3
16	Applies knowledge of the procedures for co-operating with non-UK SAR agencies.	0	2	2	3	3	4	0	3	0	2	0	2	2	3	3	3
17	Applies knowledge of the procedures restricting the use of airspace, i.e. TDA & TRFR.	0	2	3	4	4	4	0	3	0	2	0	2	2	3	3	3
18	Applies a knowledge of the procedures restricting the movement of vessels, i.e. TEZ	0	2	3	4	4	4	0	3	0	2	0	2	2	3	3	3
19	Has an understanding of the capabilities and limitations of a common recognised information picture (CRIP)	0	2	2	4	4	4	0	3	0	2	0	2	2	3	3	4
20	Applies knowledge of the procedures relating to fire-fighting at sea	0	2	2	4	4	4	0	3	0	2	0	2	2	2	2	2
21	Has an understanding of the national risk picture and associated risk measurement tools	0	2	2	4	4	4	0	3	0	2	0	2	2	3	3	4
22	Applies knowledge of maritime security including the understanding of the normal picture and identifying deviations from the norm where they are potential security issues	0	3	2	3	3	4	3	4	3	3	0	3	1	3	3	3
23	Applies knowledge of the procedures for handling covert Ship Security Alerts	0	2	2	4	4	4	0	3	0	2	0	2	2	3	2	3

Ref No.	Performance Criteria	MOO Entry	MOO Qual	SMOO Entry	SMOO F Comp	MOS Entry	MOS F Comp	MOCTR Entry	MOCTR F Comp	MOCMDR Entry	MOCMDR F Comp	SCOO Entry	SCOO Qual	COAC Entry	COAC F Comp	CODC Entry	CODC F Comp
24	Applies knowledge of the procedures for handling overt Ship Security Alerts	0	2	2	4	4	4	0	3	0	2	0	2	2	3	2	3
25	Applies knowledge of offshore carbon and renewable industry emergency response procedures	0	2	2	4	4	4	0	3	0	2	0	2	2	3	2	3
26	Has an understanding of offshore carbon and renewable industry terminology and practices	0	2	2	3	3	4	0	3	0	2	0	2	2	3	2	3
27	Applies knowledge of procedures for Explosive Ordnance disposal	0	2	3	3	3	4	0	3	0	2	0	3	2	3	2	3
28	Applies knowledge of receipt, handling & storage of Time Expired Pyros (TEPs) procedures	0	2	3	3	3	4	0	3	0	2	0	2	3	3	2	2
29	Applies knowledge of the Radio Medical Advice service	0	2	3	3	3	4	0	3	0	2	0	2	2	2	2	2
30	Applies knowledge of procedures for contacting Duty Officers (CP, Directors etc.)	0	3	3	3	3	4	0	3	0	2	0	3	2	3	3	3
31	Applies knowledge of procedures and protocols for dealing with the media	0	2	3	3	3	4	0	3	0	2	0	2	2	3	4	4
32	Apply a knowledge of procedures and protocols for using RIPA powers	0	2	0	2	2	4	0	4	0	4	0	2	2	2	2	2

3 MISSION CONDUCT & INCIDENT COMMAND

Outcomes: Coastguard Officers are able to categorise and respond to and co-ordinate operational missions.

Ref No.	Performance Criteria	MARITIME										COASTAL					
		MOO		SMOO		MOS		MOCTR		MOCMDR		SCOO		COAC		CODC	
		Entry	Qual	Entry	F Comp	Entry	F Comp	Entry	F Comp	Entry	F Comp	Entry	Qual	Entry	F Comp	Entry	F Comp
1	Understands and applies the principles and practices of leadership as they relate to the six Coastguard Functions	0	1	2	3	3	4	3	4	3	4	0	2	2	3	3	4
2	Applies knowledge of the theory and practice of leadership and team resource management	0	2	2	3	3	4	3	4	3	4	0	2	2	3	3	3
3	Applies knowledge of information analysis to determine the mission statement	0	3	3	3	3	4	3	4	3	4	0	3	3	3	3	3
4	Applies a knowledge of methods used to develop plans from the available information and mission statement	0	3	3	3	3	4	3	4	3	4	0	3	3	3	3	3
5	Is able to implement, monitor and change plans in the light of changing situations	0	3	3	3	3	4	3	4	3	4	0	3	3	3	3	4
6	Applies knowledge of risk assessments with regard to the hierarchy of rescue and the roles and responsibilities in rescue methodology	0	2	2	3	3	4	3	4	3	4	0	2	2	3	3	3
7	Exercises command and control of mission resources	0	2	2	3	3	4	4	4	3	4	0	2	2	3	3	4
8	Has an understanding of the impact of human factors on operations	0	2	2	3	3	4	3	4	3	4	0	2	2	3	3	3
9	Applies a knowledge of the process of mission debriefing and post-mission reporting and subsequent reviews and investigations	0	3	3	3	3	4	3	4	3	4	0	3	3	3	3	3

4 EMERGENCY PLANNING

		MARITIME										COASTAL					
		MOO		SMOO		MOS		MOCTR		MOCMDR		SCOO		COAC		CODC	
Ref No.	Performance Criteria	Entry	Qual	Entry	F Comp	Entry	F Comp	Entry	F Comp	Entry	F Comp	Entry	Qual	Entry	F Comp	Entry	F Comp
1	Applies knowledge of multi-agency capability mapping and the implications of current MOUs.	0	2	2	3	3	4	1	3	1	4	0	2	3	3	3	3
2	Applies knowledge of the Civil Contingencies Act (CCA) 2004 and the duties placed on HMCG as a Category 1 responder	0	2	3	3	3	4	1	4	2	4	0	2	3	3	3	3
3	Applies knowledge of the capability of emergency communications equipment and protocols within the CCA environment	0	2	2	3	3	4	1	3	1	3	0	2	3	3	3	3
4	Applies knowledge of Community Risk Registers and their impact on local preparation & response	0	2	2	3	3	4	1	3	2	3	0	2	3	3	3	3
5	Applies knowledge of the business continuity management process and the preparation & maintenance of business continuity plans	0	2	3	3	3	4	1	3	2	4	0	2	3	3	3	3
6	Able to initiate & implement business continuity plans.	0	2	3	3	3	4	1	3	2	3	0	2	3	3	3	3
7	Applies knowledge of exercise planning procedure	0	2	2	3	3	4	1	3	2	3	0	2	2	3	3	3
8	Applies a knowledge of the role of Bronze Command as used in major incidents, multi-agency incidents or exercises.	0	2	2	3	3	4	1	3	2	3	0	2	2	3	2	2
9	Applies a knowledge of the role of Silver Command as used in major incidents, multi-agency incidents or exercises.	0	2	2	3	3	4	1	4	2	3	0	2	2	3	2	3
10	Applies a knowledge of the role of Gold Command as used in major incidents, multi-agency incidents or exercises.	0	2	2	3	3	4	1	3	2	4	0	2	2	3	2	3

Outcomes: *Coastguard Officers are able to understand the emergency planning process, including Major Incident Plans, the National Contingency Plan for Marine Pollution and relevant business continuity plans, in the context of the Civil Contingencies Act 2004. Appropriate Officers are able to understand local civil resilience arrangements and to participate effectively.*

COASTGUARD COMPETENCIES - COASTAL

11a. MANAGEMENT - TEAM

Outcomes: Coastal Operations Officers are able to apply the knowledge, skills and attitude required to effectively lead, manage and,

Ref No.	Performance Criteria	SCOO		COAC		CODC	
		Entry	Qual	Entry	F Comp	Entry	F Comp
1	Applies knowledge of HMCG coast rescue risk assessment and accident and near miss procedures and be aware of health and safety guidance sources.	0	2	2	3	2	3
2	Applies safe manual handling techniques for all HMCG operations and ability to train others in these techniques.	0	3	3	3	2	2
3	Applies knowledge and understanding of the unique differences (from managing employees) and requirements for managing volunteers including the voluntary ethos and volunteer commitment.	0	4	3	4	3	4
4	Applies a knowledge of the appropriate style and approach to the management of volunteers and be able to source the current Coastguard guidance and processes associated with volunteer management.	0	4	3	4	3	4
5	Applies a knowledge of fitness standards and health checks for the CRS.	0	3	3	3	3	3
6	Applies an understanding of the various processes of audit and verification within the Coastal Operations.	0	3	3	4	3	3
7	Able to utilise specified computer office applications.	1	3	3	3	3	3

11b. MANAGEMENT - EQUIPMENT

Outcomes: *Coastguard Officers in Coastal Operations are able to demonstrate the theoretical and practical application of the care,*

Ref No.	Performance Criteria	SCOO		COAC		CODC	
		Entry	Qual	Entry	F Comp	Entry	F Comp
1	Applies an understanding of equipment inspections.	0	3	3	4	2	2
2	Applies knowledge of the documentation associated with the management of vehicles and equipment.	0	3	3	4	2	3
3	Applies knowledge of the care and maintenance protocols for all HMCG equipment.	0	3	3	4	2	2
4	Applies understanding of equipment stowage.	0	3	3	4	2	2

11c. MANAGEMENT - PRACTICAL TRAINING

Outcomes: *Coastal Operations Officers are able to deliver practical training*

Ref No.	Knowledge/Skill Criteria	SCOO		COAC		CODC	
		Entry	Qual	Entry	F Comp	Entry	F Comp
1	Applies an understanding of Safe Systems of Work when undertaking practical training	0	4	2	4	2	2
2	Assesses and mitigates risks when delivering practical training with consideration to the diversity of the environment, conditions and delegate competency	0	4	2	4	2	2

12. SEARCH

Outcomes: Coastguard Officers are able to demonstrate the practical application of the knowledge and skills required to be an

Ref No.	Knowledge/Skill Criteria	SCOO		COAC		CODC	
		Entry	Qual	Entry	F Comp	Entry	F Comp
1	Applies a knowledge of land search types, search equipment and associated skills.	0	4	2	4	2	3
2	Applies a knowledge of search team leadership.	0	4	2	4	2	2
3	Applies a knowledge of the principles of land search.	0	4	2	4	2	3
4	Applies a knowledge of the principles of land search management.	0	4	2	4	3	3
5	Applies a knowledge of HMCG search forms and their completion criteria.	0	4	2	4	2	3
6	Applies a knowledge of Search Briefing processes.	0	4	2	4	3	3
7	Able to assess the effectiveness of shore/land search plans devised by others and to describe the effectiveness of existing plans to outside agencies or individuals	0	4	2	4	3	3

13. RESCUE

Outcomes: Coastguard Officers are able to demonstrate the practical and theoretical application of the skills and knowledge required

Ref No.	Knowledge/Skill Criteria	SCOO		COAC		CODC	
		Entry	Qual	Entry	F Comp	Entry	F Comp
1	Has achieved competence in all Coast Rescue Foundation skills (link to reference control doc)	0	3	0	3	2	2
2	Has achieved competence in first aid to the appropriate level	0	3	0	3	2	2
3	Has achieved competence to the appropriate level (Awareness, Operations or Technician) in all Water Rescue skills (link to reference control doc)	0	3	1	3	1	2
4	Has achieved competence to the appropriate level (Awareness, Operations or Technician) in all Rope Rescue skills (link to reference control doc)	0	3	1	3	1	2
5	Has achieved competence to the appropriate level (Awareness, Operations or Technician) in all Mud Rescue skills (link to reference control doc)	0	3	1	3	1	2

14a. DRIVING - ROUTINE

Outcomes: Coastal Operations Officers are able to drive official vehicles (conventional or 4x4) safely and effectively on roads.

Ref No.	Knowledge/Skill Criteria	SCOO		COAC		CODC	
		Entry	Qual	Entry	F Comp	Entry	F Comp
1	Applies an understanding of routine pre-journey risk assessment checks	0	3	2	3	2	3
2	Applies an understanding of when to amend or terminate any driving operation due to environmental conditions, fatigue and vehicle or driver capability.	1	3	2	3	2	3
3	Applies knowledge of the MCA's vehicle and driving policy and the Highway Code.	1	3	2	3	2	3
4	Applies the knowledge and skill to drive safely and effectively in all conditions.	1	3	2	3	2	3
5	Applies a knowledge of defensive driving techniques	0	3	2	3	2	3
6	Applies an understanding of the risks associated with low speed manoeuvring and driving or parking in a confined space.	1	3	2	3	2	3
7	Applies knowledge of the factors to consider and techniques associated with driving a 4x4 vehicle on road in all road conditions	0	3	0	3	0	3

14b. DRIVING - OFF ROAD

Outcomes: Coastal Operations Officers are able to drive official vehicles (4x4) safely and effectively off road.

Ref No.	Knowledge/Skill Criteria	SCOO		COAC		CODC	
		Entry	Qual	Entry	F Comp	Entry	F Comp
	Applies an understanding of situational awareness when driving in places where vehicles are not usually expected	0	3	0	3	0	2
	Applies an understanding of typical high risk situations to which drivers of 4x4 vehicles are exposed.	0	3	0	3	0	2
	Applies knowledge of the factors to consider and techniques associated with driving a 4x4 vehicle off road	0	3	0	3	0	2
	Applies and understanding of the checking procedure of 4x4 vehicles both before and after off-road operations.	0	3	0	3	0	2

14c. DRIVING - BLUE LIGHT

Outcomes: Coastal Operations Officers are able to apply the requirements for driving official Coastguard vehicles under blue light

Ref No.	Knowledge/Skill Criteria	SCOO		COAC		CODC	
		Entry	Qual	Entry	F Comp	Entry	F Comp
1	Applies and understanding of the use of blue lights/siren by emergency service vehicles in the UK and the rules and protocols which apply to HM Coastguard and its vehicles.	0	3	2	3	2	2
2	Applies knowledge of the likely behaviour of other road users when confronted with an approaching vehicle under blue lights/siren.	0	3	2	3	2	2
3	Applies an understanding of the correct application of the Highway Code in conjunction with the rules and protocols whilst driving under blue light/siren conditions.	0	3	2	3	2	2

	4	Applies knowledge of the appropriate attitude whilst driving under blue light/siren conditions in accordance with hierarchy of rescue.	0	3	2	3	2	2	

14d. DRIVING - WITH TRAILER

Outcomes: Coastal Operations Officers are able to use trailers safely and are able to tow trailers safely and effectively if qualified to

Ref No.	Knowledge/Skill Criteria	SCOO		COAC		CODC	
		Entry	Qual	Entry	F Comp	Entry	F Comp
1	Applies knowledge of the pre-journey checks to be made on braked and unbraked trailers and show knowledge of load capabilities.	0	3	0	3	0	1
2	Applies knowledge of the load capabilities of braked and unbraked trailers	0	3	0	3	0	1
3	Applies an understanding of the safe manual handling, hitching an unhitching of trailers	0	3	0	3	0	1
4	Applies an understanding of the appropriate positioning and weight limits of loads.	0	3	0	3	0	1
5	Applies knowledge of the safe maneouvring of a hitched trailer and vehicle.	0	3	0	3	0	1
6	Applies knowledge of the factors to consider and techniques associated with driving of a vehicle and trailer both on and off road	0	3	0	3	0	1

COASTGUARD COMPETENCIES - MARITIME

11. VESSEL TRAFFIC MONITORING

Outcome: *To understand the Organisations obligations for Vessel Traffic Monitoring and the requirements of Coastguard officers in discharging this function.*

Ref No.	Performance Criteria	MOO		SMOO		MOS		MOCTR		MOCMDR	
		Entry	Qual	Entry	F Comp	Entry	F Comp	Entry	F Comp	Entry*	F Comp
1	Applies knowledge of the Vessel Traffic Monitoring Directive (VTMD) and relevant Merchant Shipping legislation	0	3	3	4	4	4	1	4	2	4
2	Applies knowledge of the International Regulations for the Prevention of Collisions at Sea (IRPCS) Part A - General (1-3)	0	3	3	3	3	4	1	3	1	3
3	Applies knowledge of the IRPCS Part B - Steering and Sailing Rules (4 - 19)	0	3	3	4	4	4	0	3	2	3
4	Applies knowledge of the IRPCS Part C - Lights and Shapes (20 - 31)	0	3	3	3	3	4	0	3	2	3
5	Applies knowledge of the IRPCS Part D - Sound and Lights Signals (32 - 37)	0	3	3	3	3	4	0	3	2	3
6	Applies knowledge of the international distress signals as described in Annex IV of the IRPCS	0	3	3	3	3	4	0	3	2	3
7	Applies knowledge of the IALA buoyage system and other aids to navigation	0	3	3	3	3	4	1	3	2	3
8	Applies knowledge of different types of vessels and their manoeuvrability and handling characteristics	0	3	3	4	4	4	0	4	2	3
9	Applies knowledge of the factors affecting towing operations	0	2	3	4	4	4	0	3	2	3
10	Applies a knowledge of anchoring and mooring operations, ship-to-ship transfers, offshore oil loading systems.	0	2	2	3	3	4	0	3	2	3
11	Applies knowledge of the function, advantages & limitations of shipborne navigational aids	0	2	2	3	3	4	0	3	2	3
12	Applies knowledge of various types of cargoes, including dangerous goods, transported on board ship	0	2	2	3	3	4	0	3	2	3
13	Applies knowledge of the IMO hazardous cargo classifications including carriage and associated hazards	0	2	2	3	3	4	0	3	2	3
14	Applies a knowledge of the procedures for raising and/or dealing with reports relating to the transportation by sea of hazardous materials. i.e. Hazmats	0	2	2	3	3	4	0	3	2	3

15	Applies a knowledge of the procedures for raising and/or dealing with reports relating to Vessels i.e. DEFREPs	0	2	2	3	3	4	0	3	2	3
16	Applies an understanding of Mandatory and Voluntary Ship Reporting Systems and other Ship Routeing Systems and the procedures to deal with routine and non-compliant activity within them.	0	3	3	3	3	4	0	3	2	4
17	Applies an understanding of the Consolidated European Reporting System CERS, SafeSeaNet SSN and how to report and access data relating to them	0	3	3	4	4	4	0	4	2	3
18	Applies a knowledge of the procedures for incident creation and reporting of all maritime activity covered by the VTMD	0	3	3	3	3	4	0	3	2	3
19	Applies an understanding of vessel working operations and regulations (routine, special circumstances and emergency) for different vessel types, e.g. merchant, commercial fishing & angling, leisure)	0	2	2	3	3	4	0	3	2	4
20	Applies knowledge of AIS to monitor vessel movements and positions.	0	3	3	4	4	4	0	3	2	4
21	Applies a knowledge of Long Range Identification and Tracking (LRIT)	0	3	3	3	3	4	0	3	2	3

COASTGUARD COMPETENCIES – AERONAUTICAL

11a. AIRCRAFT OPERATIONS – TECHNICAL

Notes: *Coastguard ARCC Operations Officers will have additional compentcies from those conducting Maritime Operations, the role of SAOO & AOCTR will require compentcies of a SMOO and MOCTR respectively.*

Outcomes: *Coastguard ARCC Operations Officers are able to understand and apply knowledge of the principles of flight and aircraft operations and their practical application in the SAR environment.*

Ref No.	Performance Criteria	SAOO		AOS		AOCTR		AOCMDR	
		Entry	Qual	Entry	F Comp	Entry	F Comp	Entry	F Comp
1	Applies a knowledge and understanding of basic Principles of Flight; thrust, lift to weight ratio, indicated, true and groundspeed, pressure settings, etc.	2	2	3	4	2	3		
2	Has an understanding of principle avionics systems e.g. altimeter, artificial horizon, air speed indicator.	2	2	3	4	2	3		
3	Applies a knowledge and understanding of Air Traffic Control (ATC) procedures, their types and the airspace associated with them; tower, approach, area radar, etc.	2	2	3	4	2	3		
4	Applies a knowledge and understanding of basic airport procedures, including terms regarding layout, handling agent requirements, booking procedures, and airfield crash category requirements for particular aircraft.	2	3	3	4	3	3		
5	Applies a knowledge and understanding of aircraft aviation fuel, including categories, aircraft fuel consumption and implications i.e. endurance.	2	3	3	4	3	4		
6	Applies a knowledge and understanding of the factors which may affect an aircraft's ability to land at its destination and the requirements for diversions.	2	3	3	4	3	3		

| | 7 | Applies a knowledge and understanding of aircrew workload, responses and priorities when handling aircraft emergencies and how best to to support the crew. | 2 | 3 | 3 | 4 | 3 | 4 | | | |

11b. AIRCRAFT OPERATIONS – AIRMANSHIP

Outcomes: Coastguard ARCC Operations Officers are able to understand and apply knowledge of airmanship to all incidents and act as subject matter experts (SME) in the tasking and coordination of aeronautical SAR assets.

Ref No.	Performance Criteria	SAOO Entry	SAOO Qual	AOS Entry	AOS F Comp	AOCTR Entry	AOCTR F Comp	AOCMDR Entry	AOCMDR F Comp
1	Applies a knowledge and understanding of the principles of Air Law, including airspace classification and Rules of the Air.	2	2	3	4	2	3		
2	Applies a knowledge and understanding of aviation maps, charts, documents and publications pertaining to UK airspace and neighbouring states e.g. low/medium/high level flying charts, Flight Information Handbook, En-route Supplements, HLS Directories, etc.	2	3	4	4	3	4		
3	Applies a knowledge and understanding of meteorology to aviation, particularly in relation to helicopter and light aircraft aviation.	2	3	4	4	3	4		
4	Applies a knowledge and understanding of Notices to Airmen (NOTAM), Danger and Restricted Flying Areas, Temporary Danger Areas, Emergency Restrictions to Flying Regulations and the Military Low Flying System.	2	3	4	4	3	4		
5	Applies a knowledge and understanding of the Centralised Aviation Data System (CADS) and its successor.	2	3	3	4	3	3		
6	Applies a knowledge and understanding of the meaning, format and response to aeronautical radio communications, particularly the requirement for Operations Normal calls, PAN and MAYDAY calls, Q codes and other common terminology e.g. long finals, PAR, ILS, circuit, etc.	2	3	4	4	3	3		

11c. AIRCRAFT OPERATIONS – CAPABILITIES & CONSTRAINTS

Outcomes: *Coastguard ARCC Operations Officers are able to understand and apply knowledge of the assets available to UK ARCC in order to manage those assets and provide SME advice where appropriate.*

Ref No.	Knowledge/Skill Criteria	SAOO		AOS		AOCTR		AOCMDR	
		Entry	Qual	Entry	F Comp	Entry	F Comp	Entry	F Comp
1	Applies a knowledge and understanding of the location and disposition of declared UK National Aeronautical SAR assets and implications of changes to that disposition.	2	3	3	4	3	4		
2	Applies a knowledge and understanding of the capabilities and constraints of all declared UK National Aeronautical SAR assets.	2	3	3	4	3	4		
3	Applies a knowledge and understanding of the capabilities and constraints of key SAR systems and equipment, particularly those routinely used by declared UK National SAR assets e.g. night vision devices (NVDs), electro-optical/infra-red equipment, rescue hoist, homing devices, medical capabilities, etc.	2	3	3	4	3	4		
4	Applies a knowledge and understanding of the capabilities and constraints of the likely non-declared air assets which the UK ARCC may call upon, particularly counter-pollution, UK Military, UK commercial (JIGSAW and Watchdog), volunteer organisations (e.g. Sky Watch).	2	3	3	4	3	4		
5	Applies a knowledge and understanding of the capabilities and constraints of civilian land SAR organisations including MRTs, lowland rescue teams, Search and Rescue Dog Association (SARDA), cave and mine rescue teams and the RAF Mountain Rescue Service.	2	3	3	4	3	4		

6	Applies a knowledge and understanding of the likely assets that the UK ARCC may request from neighbouring states and UK based USAF assets.	2	3	3	4	3	4			
7	Applies a knowledge and understanding of the factors which may affect the availability of SAR crews for tasking, including fatigue, crew qualifications and the Air Operator's Certificate.	2	2	3	4	2	3			
8	Applies a knowledge and understanding of the interaction between UK ARCC and the tasking authorities for other emergency air response assets such as Air Ambulances and Police Air Support Units, including their capabilities and constraints.	2	3	3	4	3	4			
9	Applies a knowledge and understanding of the support needs of declared UK National SAR assets and any tasked non-declared assets. Such support includes clearances through restricted airspace, danger and restricted areas, refuel and aircraft handling arrangements, HLS reception, etc.	2	3	3	4	3	4			

12. AERONAUTICAL ASSET ALLOCATION

Outcomes: Coastguard ARCC Operations Officers are able to understand and apply knowledge of the specific considerations involved in the decision to allocate an aeronautical SAR asset to an incident.

Ref No.	Knowledge/Skill Criteria	SAOO		AOS		AOCTR		AOCMDR	
		Entry	Qual	Entry	F Comp	Entry	F Comp	Entry	F Comp
1	Applies a knowledge and understanding of the particular aspects of information gathering that is required when taking a request for aviation assistance e.g. weather, tree cover, obstructions, etc.	2	3	3	4	3	4		
2	Applies a knowledge and understanding of the factors regarding asset availability, location and disposition that affect the decision to support any request for aeronautical assistance.	2	3	3	4	3	4		
3	Applies a knowledge and understanding of the specific factors which can affect the ability and effectiveness of an aircraft to operate in different environments, particularly mountainous terrain, poor weather and darkness.	2	3	3	4	3	4		
4	Applies a knowledge and understanding of the implications of responding to a SAR request from surface and sub-surface military vessels.	2	3	3	4	2	3		
5	Applies a knowledge and understanding of the factors surrounding multi-aircraft operations including aircraft coordinator (ACO) and Major Incident Response.	2	3	3	4	3	4		
6	Applies a knowledge and understanding of the aviation aspects of maritime and coastal operations, including SAR and counter-pollution incidents, in order to provide SME advice to requesting CGOCs.	2	2	3	4	2	4		

7	Applies a knowledge and understanding of the nature and specific requirements of the response to incidents involving aircraft. This includes actions on overdue or missing aircraft, reported aircraft crashes/actual aircraft crashes (on and off a recognised airfield) and incidents involving other types of aircraft e.g. para-gliders, micro-lights, balloons.	2	3	3	4	3	4			
8	Applies a knowledge and understanding of the specific requirements when responding to incidents involving military aircraft including searching for and handling ejectees, munitions and hazardous materials. Also the need to liaise with military agencies and structures such as RAF MRTs, Deputy Chief of the Defence Staff Duty Officer (DCDSDO) and RAF Regional Liaison Officers (RAFRLOs).	2	2	3	4	2	4			
9	Applies a knowledge and understanding of the HMCG procedures, policy and direction when a request for UK National Aeronautical assets is received for other, non-SAR tasks e.g. carriage of armed police officers	2	2	3	4	2	4			

13. MEDICAL

Outcomes: *Coastguard ARCC Operations Officers are able to understand and apply knowledge of the medical aspects of an incident in order to prioritise and coordinate appropriately.*

Ref No.	Knowledge/Skill Criteria	SAOO		AOS		AOCTR		AOCMDR	
		Entry	Qual	Entry	F Comp	Entry	F Comp	Entry	F Comp
1	Applies a knowledge and understanding of the medical terminology and implications of the types of injuries and conditions affecting casualties and, if necessary, prioritise accordingly. ATMIST, GCS.	2	3	3	4	3	4		
2	Applies a knowledge and understanding of the various agencies, establishments, networks and organisations involved in the pre-hospital patient care pathways and protocols.	2	3	3	4	3	4		
3	Applies a knowledge and understanding of the differing requirements of various medical establishments in order to ensure that casualty reception arrangements are made, including HLS requirements e.g. presence of police, FRS, HMCG.	2	3	3	4	3	3		
4	Applies a knowledge and understanding of the specific circumstances under which inter-hospital patient transfer may be undertaken.	2	3	3	4	3	4		

COASTGUARD COMPETENCIES – MISSION CONTROL CENTRE

11. MISSION CONTROL CENTRE (MCC)

Outcomes: *Coastguard ARCC Operations Officers are able to understand and apply knowledge of the COSPAS SARSAT framework in order to respond to emergency satellite beacon alerts and support those agencies that have primacy for the response.*

Ref No.	Performance Criteria	MOO(A)		SMOO(A)		MOCTR(A)	
		Entry	Qual	Entry	F Comp	Entry	F Comp
1	Applies a knowledge and understanding of the COSPAS SARSAT constellation, including satellite footprint, orbit times and practical applications of the system, through use of the current operating system and its successor.	0	3	1	3	2	2
2	Applies a knowledge and understanding of the various types of alerts and notifications that may be received from the COSPAS SARSAT system e.g. 2 position, detect only, dumpass, etc.	0	3	1	3	2	3
3	Applies a knowledge and understanding of the UK and international SAR frameworks and organisations in order to correctly identify, inform and support the agency responsible for the alert response.	0	3	1	3	2	2
4	Applies a knowledge and understanding of the information gathering requirements and sensitivities involved in contacting the Emergency Point Of Contact (EPOC) when attempting to validate an alert.	0	3	1	3	2	3
5	Applies a knowledge and understanding of the internal sources of information within HMCG and external organisations which may be able to assist in validating an alert.	0	3	1	3	2	2
6	Applies a knowledge and understanding of the various other types of satellite alerting systems such as SPOT Messenger in order to act as the UK point of contact.	0	3	1	3	2	2
7	Applies a knowledge and understanding of emerging non-traditional emergency notification systems e.g. smart phone applications, social media, etc.	0	2	0	3	2	2

8	Applies a knowledge and understanding of the role of the UK MCC in order to act as SME to external national and international agencies.	0	2	1	3	3	4	
9	Applies a knowledge and understanding of the various sources of beacon registration details and maintains databases as required by HMCG.	0	3	1	3	2	2	