ion of working g the outcome and Rationale Relevant	le Action required
g the outcome and Rationale	
Relevant	None
Relevant	None

 1.2 How to communicate with the distressed craft in accordance with International Regulations and procedures. A. Action on receiving a distress signal B. Recording the distress message C. IAMSAR manual: communications 	Modernise	We need to provide more formal guidance on other approved legislation other than IAMSAR for aircraft casualties at sea.	Include understanding of the details from Annex 12 to the Convention on International Civil Aviation - Search and Rescue (Chapter 5 and Appendix). There are also ongoing discussions within IMO regarding provision of more guidance on this topic that will be included in the future syllabus.
 1.3 How to obtain information on the position and nature of the distress A. Components of the distress message B. Identification, position, nature, and kind of assistance required C. Other information D. Technique of homing on radio signals 	Кеер	Relevant	None

 C. Proceeding to the area of distress – On board preparation D. Aircraft casualties at sea E. Follow a contingency plan 	distress — On board preparation D. Aircraft casualties at sea	Кеер	Relevant	None
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 1.5 Planning and preparation for a search A. Categories of distress incidents: Coastal and ocean B. Abbreviations, terms and definitions C. Communications: internal and external D. Co-ordination of search and rescue operations E. Designation of SMC and OSC and their responsibilities F. Responsibility of other craft in the co-ordinated search G. Search patterns taking into account drift, leeway, visibility and type of assistance available H. Drift patterns of disabled vessels with relation to wind and currents I. Rendezvous J. Establish a datum point before commencing search pattern K. Contingency planning and training 	Modernise	Contextualise to show how a search would be planned and prepared for practically on board. Currently this learning is very theoretical and does not bring the practical side into the candidate's journey.	This could be modernised by use of the Simulator to assess students understanding of planning of search patterns for a given scenario.
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 1.6 How to conduct a search A. Proceeding to the area of distress B. On board preparation C. Action by assisting ships D. Approaching the scene, radar search E. Arrival on scene, implement search plan F. Assistance by SAR aircraft G. Homing on radio signals H. Aircraft casualties 	Modernise	Contextualise to show how a search would be planned and prepared for practically on board. Currently this learning is very theoretical and does not bring the practical side into the candidate's journey.	This could be modernised by use of the Simulator to assess students understanding of planning of search patterns for a given scenario.
 1.7 How to conduct a rescue: A. When survivors in the water/boats/rafts B. From ditched aircraft C. Fire D. Heavy weather E. Evacuation by helicopter 	Modernise	This needs to be broadened to include Mass Casualty/ Migrant Rescue situations.	Add Mass Casualty/ Migrant Rescue situations to this outcome (The MCA's intention is to raise this in the IMO STCW Review).

 1.8 How to terminate SAR operations A. Care of and questioning of survivors B. Decision to terminate, factors to consider C. Reports to authorities 	Кеер	Relevant	None
 1.9 The general arrangements for search and rescue: A. The global maritime distress and safety system B. In addition to ships, the assistance which may be given by authorities around the coast of the United Kingdom C. Ships' position and reporting systems 	Кеер	Relevant	None

 1.10 The obligations and responsibilities for assistance at sea and the action to be taken to render assistance A. IAMSAR Manual – Annual Summary of Admiralty Notices to Mariners -Notice 4 B. Consultation with other stations answering the distress C. Legal obligations D. Exemptions from answering a distress E. Logbook entries 	Modernise	This needs to be broadened to include Mass Casualty/ Migrant Rescue situations.	Add the legal obligations of Mass Casualty/ Migrant Rescue situations to this outcome (The MCA's intention is to raise this in the IMO STCW Review).
Outcome 2: Describe IMO approved communication procedures used to avoid misinterpretation at sea.	Кеер	Relevant	None
2.1 IMO standard marine communication phrases	Кеер	Relevant	None
2.2 International code of signals	Кеер	Relevant	None
2.3 Radio distress communication procedures	Кеер	Relevant	None
Outcome 3: Transmit and receive information by visual means, as directed by the International Code of Signals	Кеер	Relevant	None
3.1 Send and receive signals using Morse code by means of flashing light	Modernise	The requirement for a signals certificate to be issued in the 3	A review of signals certificate outcome should be undertaken looking into

3.2 Send and transmit signals using the	Кеер	years prior to a CoC should be reviewed. Relevant	relationship between Signals Certificate and CoC None
International Code of Signals	кеер	Relevant	none
Proposal submitted by:			which would be needed due to use of
	Objective	Reason Why	Action required
Cadet Training & Modernisation Working Group	Include Human Element Factors throughout the syllabus	To provide seafarers with a contextualised understanding of the Human Element in the maritime industry, showing how they can put theory into practice in the work they carry out at sea.	Explore how training can go out the window under stress but drills are a good way to ingrain the correct procedure. Include a general awareness about the impact of stress (and other factors) on cognition, perception and decision making - somewhat covered in HELM. Consider the SUGAR model from MCA's behaving safely, or equivalent. Explore basic techniques to reduce the impact of these - e.g. slow down, evaluate options, communicate with others. MCA's Leading for Safety (soon to be published) has useful tips but may be too prescriptive Raise awareness throughout the Cadet's training of the areas in which human element factors will have an impact. Recommendations on where this can be included have been noted throughout

			the entire syllabus. Not every template has Human Element Factor recommendations but please do add any you feel may have been missed.
Cadet Training & Modernisation Working Group	Include Data Science skills throughout the syllabus	Data Science Skills (Comprehension, Analysis, Presentation, etc) are already required within much of the syllabus. A further, specific focus on these skills needs to be taught where relevant.	A specific topic will need to be introduced to improve Cadets' Data Science skills. Practical application of data science skills should be highlighted throughout the syllabus. Not every template has Data Science recommendations but please do add any you feel may have been missed.
Cadet Training & Modernisation Working Group	Ensure all outcomes are contextualised to help Cadets understand what they are learning in relation to what they will experience at sea.	While some outcomes are intrinsically linked to work carried out at sea, some need to be contextualised to show how they apply to work on board. Where this is the case, it is important to make sure Cadets clearly understand how the outcome relates to work at sea and it is essential to make sure that this context is given with reference to current and future seagoing technologies and practices.	Where outcomes do not specifically cover a topic which relates to work carried out at sea, more must be done to contextualise the outcome and make it relevant to the maritime industry, giving specific shipping examples of how the outcome may be applied in a modern shipping context. Not every template has contextualisation recommendations but please do add any you feel may have been missed.