Role	Curriculum Manager
	Nautical College
Organisation	ETO - DC and AC Principles
Module	ETO - De and Ac Principles
Your Feedback -	N1/A
Outcome 1	N/A
Sub-Group 1.2	
Response	N/A
Your Feedback -	
Outcome 2	N/A
Sub-Outcome 1.2	
Response	N/A
Your Feedback -	
Outcomes Above	
and Beyond	
	N/A
Sub-Group 1.2	
Response	N/A
Your Proposed Outcome	I would like to see another outcome on Magnetic circuits, including topic on Magnetic fields, Magnetic flux and flux density, Magnetomotive force and magnetic field strength, Permeability and B–H curves, Reluctance Composite series magnetic circuits, Comparison between electrical and magnetic quantities,
Your Rational for	
this outcome	To to get a sound understanding of electrical machines a sound knowledge Magnetic circuits is essential.
Your Action for	Outcome 3
this outcome	Demonstrate knowledge of electromagnetic field concepts and circuits
	Knowledge and/or skills
	Magnetic quantities (mmf, flux and reluctance)
	Simple magnetic circuit calculations
	Composite magnetic circuits
	Induced emf and current
	Leakage fluxes
	Magnetic losses
	Pulsating and rotating mmfs
Sub-Group 1.2	
Response	Many thanks for your feedback.
	We are in agreement with the points you have raised and have added all three to the module.
Your Proposed Outcome	Addition to Kirchoffs laws apply network theorems like Superposition Theorem (applied to d.c. and a.c. circuits), Thevenin and Norton's Theorems (applied to d.c. and a.c. circuits) and Maximum Power Transfer Theorem (d.c. or a.c. cases)
Your Rationale	Theorem (d.c. or d.c. cuses)
for this outcome	
ior this outcome	Sound understanding of network theorems are essential for electrical engineers
Your Action for	South understanding of network theorems are essential for electrical engineers
this outcome	Add this topic to outcome 1
	Add this topic to dutcome 1
Sub-Group 1.2 Response	Many thanks for your feedback.
	We are in agreement with the points you have raised and have added all three to the module.
Vous Proposad	we are in agreement with the points you have raised and have added all tillee to the module.
Your Proposed Outcome	Add another outcome on resonating circuits
Your Rationale	And another outcome on resonating circuits
for this outcome	Knowledge of resonating circuits are needed in application like radio transmission, signal processing and
Vous Astis C	communication etc
Your Action for this outcome	
	Add a new outcome called
	Solve problems involving resonating passive circuits
	Knowledge
	Resonant frequency and dynamic impedance in an R - L - C
	Q - factor and bandwidth in an R - L - C series circuit
	Impedance/frequency and current/frequency graphs associated with an R - L - C series circuit
	Resonant frequency and dynamic impedance in a R - L in parallel with C circuit
	Q - factor and dynamic impedance in a R - L parallel C circuit
	Impedance/frequency and current/frequency graphs associated with an R – L parallel C circuit
Sub-Group 1.2 Response	Many thanks for your feedback.
пезропѕе	
	We are in agreement with the points you have raised and have added all three to the module.

Dala	Country Managan						
Role	Curriculum Manager						
Organisation	Nautical College						
Module	ETO - Transformers						
Your Feedback - Outcome 1	Add transformer shell type construction as well						
Sub-Group 1.2 Response	Many thanks for your feedback.						
	We are in agreement that this is relevant to outcome 1.1, owing to the increased use of shore power while alongside. As such, this is essential knowledge and we have added to the outcome.						
Your Feedback - Outcome 2	N/A						
Sub-Group 1.2 Response	N/A						
Your Feedback - Outcomes Above and Beyond	N/A						
Sub-Group 1.2 Response	N/A						
Your Proposed Outcome	Add protection systems of transformers Overcurrent Protection in Transformer : IDMT relay Differential Protection of Transformer : differential relay Restricted Earth Fault Protection						
Your Rationale for this outcome	Electrical engineers need to know the different protection system on transformers						
Your Action for this outcome	Add as additional knowledge in outcome 4						
Sub-Group 1.2 Response	Many thanks for your feedback, we are in agreement and have added this to outcome 4.						
Your Proposed Outcome	Need to add knowledge of: Instrument transformers						
Your Rationale for this outcome	ETO's need the knowledge of Principle of working of Instrument transformers like CT & PT .						
Your Action for this outcome	Add Instrument transformers as an additional topic in outcome 4						
Sub-Group 1.2 Response	Many thanks for your feedback, we are in agreement that this should be added. However, we believe it would be more appropriate in outcome 1, so have included it there.						

Role	Fleet Training and Development	2nd Mate	Vessel Manager	Maritime Standards Manager	Lecturer	Captain	Vice President	Chief Officer	Captain	Principal	Marine Assurane Manager	Trainee Solicitor
Organisation Module	Manager International Shipping Company Deck - Emergency Response and	National Shipping Company Deck - Emergency Response and	Offshore Shipping Company Deck - Emergency Response and	National Government Body Deck - Emergency Response and	Nautical College Deck - Emergency Response and	International Shipping Company Deck - Emergency Response and	International Shipping Company Deck - Emergency Response and	Freelance Deck - Emergency Response and	Yacht Industry Deck - Emergency Response and	Nautical College Deck - Emergency Response and	Utility Company Deck - Emergency Response and	Law Firm Deck - Emergency Response and
Your Feedback - Outcome 1 Sub-Group 1.2 Response	Communication any A	Communication any/A	Communication Cannot comment on Outcome 1.5 as its not shown on the screen	Communication Agree with the basis premise with respect to maintaining the current methods for teaching this area are acceptable With respect to 1.2 it is considered that this proposed change to cadet	Communication For 1.2 - Suggest that the reason behind this extra focus is explained to teachers and students - Ideality with a one linee in the syllabus or through a NIM. Reason - Most students and teachers who have spoken to feel that this si relevant, as very few have seen / experienced / heard of aircraft casualties at sea. And if one occurs, they will simply follow the MRCS: instructions - why do they need to spend time learning about this in nautical college? J.3 - Honning - in not relevant for skips today, as we don't have DF fitted on the higge any more. Unless you wish to show how the SART can be used for homing in I's st, this should be clarified in the syllabus so that teachers teach have. Many thanks for your feedback.	Communication and Average and	Communication and A	Communication and A	Communication and JA	Communication and A	Communication and A	Communication BN/A
			apologies this was on the next question.	with distressed carft. We believe it would be beneficial to be ahead of the curve and help lead the discussion by including the suggestions in outcome 1.2. Apologies regarding outcome 1.5, this was included on the next question.	with regards to outcome 1.2 it has been indicated through the working group and the industry concultation that this remains a relevant topic. The additional information suggested is for awareness to help respond to an emergency if it arises. With regards to outcome 1.3 this has been indicated through the working with regards to outcome 1.3 this has been indicated through the working discount of the control o							
Your Feedback - Outcome 1		Ibelieve that outcome 1.8 could also benefit from modernisation alongside the others with regards to personal security and security of property when caring for and transferring survivors.	mN/A	1.5 Whist simulator training in this area may have beenfit it should not become a mandatory part of the cladet training slighbus 1.6 comments as per 1.5 above the theoretical training of cadest in this area can usefully be supplemented by enabling simulation to be part of the training, it is not however considered necessary to make the a mandatory part of the training and examination. Light the contraction of the contraction o	add sessions with McA personnel coming in to talk to the candidate-even if it is for an hour. Exclusive the continue to be highly theoretical even after the changes.	stv/A	1.5 G) inclusion of props and cons of a datum search and sector search, and use of environment (jie: Sun & Moon)	#b//A	#N/A	mt/A	#M/A	80%/A
Sub-Group 1.2 Response	and/A	Many thanks for your feedback. We are unsure exactly what you are suggesting, are your referring to the personal security of the seafarers or the personal security of the survivary of the survivary of the survivars and their property? Please provide further clarification to ctandm.enquiries@mcga.gov.uk	at\/A	desireable. While we will certainly take into account the outcome of the IMO discussions regarding communication with Mass Casually Migrant Result (We believe It would be beneficial to be ahead of the curve and help lead the discussion by including the suggestions in outcome 1.7.	emergency response scenarios.	ath ₄ /A	Mamy thanks for your feedback. Datum search and sector search are already covered within this outcome. Taking into account environmental factors such as these used mean are already covered under "skisility" within this outcome and the practical aspects are covered through IAMSAR Volume III.	ativ/A.	#24/A	ath(/A	ant/A	atv.j.A.
Your Feedback - Outcome 1	#N/A	#N/A	#N/A	1.10 This proposal can be welcomed in principle but the changes to cadet training should await the outcome of the IMO STCW review	regarding what exactly teachers	#N/A	#N/A	#N/A	st./A	st\/A	#N/A	I think legal obligations should also be linked with a basic understanding of what salvage is and the situations in which it can be claimed over a vessel.
Sub-Group 1.2 Response	an/A	aths/A	HN/A	Many thanks for your feedback. For clarification, the STCW Comprehensive review is due to start in 2024, the MCA intends to propose the inclusion of this topic as part of the review but believe adding it to the UK syllabus would provide strong evidence for its inclusion in STCW.	modules with delivery guidance for	ats/A	#94/A	#54/A	20%/A	atts/A	#94/A	Many thanks for your feedback. This module is purely looking at the practical side of emergency response. Salvage is covered in the Shipmasters' Law and Business module.
Your Feedback - Outcome 2	#N/A	#N/A	mtv/A	Agree that the current training of cadets wrt IMO approved communication procedures used to avoid misinterpretation at sea remain appropriate and that no change is required in this area.	N.A.	I question whether a 'Morse Code' examination is relevent in this day and age, in 25+ years at sea I have never been called on to use it	mv/A	mN/A	#N/A	#N/A	mN/A	#N/A
Sub-Group 1.2 Response	MN/A	ms./A	at\/A	Many thanks for your feedback, it has been noted.	Many thanks for your feedback, it has been noted.	been noted. This is actually covered in outcome 3.1 in which we have suggested "A review of signals certificate outcome should be undertaken looking into relationship between Signals Certificate and CoC".		#N/A	#94/A	ath/A	#94/A	IIN/A
Your Feedback - Outcome 3	atN/A.	#N/A	#84/A	The requirements for Cadet training and examination by visual meaning with the International Code of signals remains relevant, the review of the necessity of the separate signals certificate is welcomed.	2 letter flag signals are really not needed, as they are not used by merchant ships at sea any more.	#84/A	ant/A	Morse restricted / focused to those mentioned in Cofreys. Regarding flags - apart from hoisting Alpha, Bravo and Hotel in 11 years at sea no others have been hoisted.	opinion and feel it would be	that is needed since the advent of	event of an emergency, if all other	
Sub-Group 1.2 Response	an/A	ans j.A.	ahij A	Many thanks for your feedback, it has been noted.	Many thanks for your feedback, it has been noted. We are in agreement and we will bring this outcome in line with STCW by including in the guidance document. "Ability to transmit and receive, by Mone slight, distress spind SSO as specified in Annex N of the International Regulations for Preventing Collisions at Sea, 1972, as amended, and appendix 1 of the International Code of Signals, and visual signaling of Single "etter signals and specified in the International Code of Signals,"	ans/A	ang/A	been noted. A more focussed approach has been suggested in outcome 3.1 in which we have suggested "A review of signals certificate outcome should be	been noted. Pleaase be advised that we are not suggesting to remove all testing of morse code. However, a more focussed approach has been suggested in outcome 3.1 in which	been noted. A more focussed approach has been suggested in outcome 3.1 in which we have suggested "A review of signals certificate outcome should be	Many thanks for your feedback, it has been noted. A more focussed approach has been suggested in outcome 3.1 in which we have suggested. If notine of signals certificate outcome should be understaken looking into relationship between Signals Certificate and CoC*.	Please be advised that, as per MSN 1856 - Amendment 1, to achieve an OOW Unlimited CoC a candidate must hold a Signals certificate issued in the previous 3 years. We are in

Above and Beyond	Stats science' is a big topic. I am guessing that the outcome is not for the cadels to learn to produce data, but instead to clean mart/big data and take some analysis from it. All careers are going to need to handle larger data and safering is neception, but I fell we need to be realistic about the skills required by Mariness. They will not be data scientists or analysis (yet), but may well need to be data specialistic, said defined by programmes like Tableau). Many thanks for your feedback.	I agree with all of the recommendations with regards to data science skills, however believe this could be taken further with regards to up to date IT skills. Codets need a solif donation of knowledge concerning computer science in a this industry as it becomes more reliant on IT for compliance and safety. Many thanks for your feedback.	8N/A	examination or assessment of cadets in any new Trojic of "Otata Science Skills" unless and until included in changes to ST(x), such skills can be developed informally as part of more general training	NA. Many thanks for your feedback.	894/A	anija anija	#N/A	enija enija	Contestualisation is done currently, hence the need for this review. Care should be taken to ensure that the formal embedding of specific "soft skislis" into units ymodule are not done to "lick soo" and actually enhance the learning within a particular uniffymodule. Data analysis is an important skill to learn but it is just as important understand the appropriateness of the data to a particular uniffy and the proposition of the data to a particular uniffers and the appropriateness of the data to a particular given situation. Many thanks for your feedback.	en/A	an/A
	You are correct in your assumption, we are looking to formatise the teaching of data handling and interpretation skills, to ensure that scaffacers can make best use of the data they are being presented with.	IT skills are already covered within the sylabus and the use of electronic resources throughout training will improve the seafare's computer skills.		been noted. This is a topic which we are looking to introduce above an beyond the requirements of STCW, in order to future proof the skills of seaferars. It will be included as a UK recommendation is part of the IMO's comprehensive review of STCW.						As per the suggested Human Element Factors section we are looking to provide seafers with a contextualised understanding of the Human Element in the maritime industry, showing how they can put theory wito practice in the work they can be the practical examples of how these can be implemented at sea. We are in agreement with your comment about data analysis and the appropriations of data, this will be covered as part of the data science module.		
Your Proposed Outcome	#N/A	As stated, I believe that it is important for further cades to have a solid knowledge of ICT skills and Computer Science, especially with regards to networks and connectivity on board, as well as maintenance of both hardware and software on board. This could include software maintenance, recognising error messages and resolving issues on board.	aN/A	#N/A	the current sea time requirements are very low (gis. 21 months). Feedback from salling officers suggests that the Pin Gradests and officers who have gone through this stream to be pertup poor in their practical knowledge and skills on board. 12 months is simply insufficient to get this in a profession as practical as the merchant navy. This is not because of the cadet's mistake, but rather because the current system does not give them 1.8 24 months are to be some different seafares on board from different seafares on board from different seafares on board from control of the cade to the control of the cade to the cade to be some profession and the cade to be some profession to the cade to be cad	ate (A	anų/A	ati(A	en _{ij} a.	and A	BN/A	894/A
Your Rationale for this outcome	atst/A.	The role of computers and digital tools in the industry cannot be understated. It would be helpful from a perspective of operations and maintenance for seafarers themselves to be able to maintain their own systems instead of relying on shore-based contractions and facilities who may not be able to assist the vessel freely. At the very least, trained seafarers could assist the vessel freely, but the very least, trained seafarers could assist the vessel freely, but the very least, trained seafarers could assist the vessel freely, but the very least, trained seafarers could assist the vessel freely, but the very least, trained seafarers could assist the vessel freely, but the very least, trained seafarers could assist the vessel freely account of the very least, trained seafarers could assist the vessel freely account of the vessel of the very least that the vessel of the very least the vessel of the vessel of the very least the vessel of the	BN/A	#N/A	The current sea time requirements are very low (just 21 months). Feedback from sailing offlicers agents that they find adests and officers who have gone through this stream to be pretry poor in their practical knowledge and skills on board 12 months is simply insufficient to get this in a profession as practical as the merchant navy. This is not because of the cader's mistake, but rather because the current system does not give them 18 24 months at set to learn and assimilate diverse learning from different seafarers on board ships.	894/A	and/A.	874/A	me/A	ath/A	an/a	atv.jA.
Your Action for this outcome	#N/A	The required knowledge could be introduced to the syllabus as another outcome linked to outcomes regarding the human element on	#N/A	#N/A	Current 12 months of sea time be changed to 18 months at sea.	#N/A	#N/A	#N/A	an/A	stN/A	#N/A	sn/A
Sub-Group 1.2 Response	#h/A	board. Many thanks for your feedback. While we agree that IT stills are an important topic, and irredy include in the yellakus, we do not think it would be appropriate to require Deck Officers to be computer engineers as this would be appropriate to require Deck Officers to be computer engineers as this would be appropriate to require Deck Officers to be computer engineers as this would be appropriate to require Deck Officers to be computer engineers as the propriate of the pr	st\/A	ah/A	Many thanks for your feedback. This reserve is hoding only at the reserved for help thanks and, as such, will not be able to influence the amount of seagoing service required. However, we are booking to ensure that all cadet training is appropriately contextualised to the work on board ships, which we hope will help Cadets become an efficient member of the ship's team.	#P4/A	ath/A	ah/A.	anija.	ath/A	#N/A	an/A
Your Proposed Outcome	#N/A	#N/A	#N/A	#N/A	Use of alternative fuels should be added as a topic.	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
Your Rationale for this outcome	#N/A	#N/A	#N/A	#N/A	Due to the increasing number of ships being fitted with alternative /	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
Your Action for this outcome	#N/A	#N/A	πN/A	#N/A	dual fuel systems Addition of this to the existing syllabus, or better, a 1 day course teaching this, made mandatory for all cadets and Masters and Chief mates.	#N/A	#N/A	#N/A	an/A	stN/A	#N/A	#N/A
Sub-Group 1.2 Response	#N/A	WN/A	aN/A	ats/A	Many thanks for your feedback. While we agree that alternative fuels are relevant to the modern seafarer, we do not feel that they are required to be covered within this module. These are covered in the Marine Engineering Systems module.	un/A	aN/A	un/A	an/A	ats/A	sn/A	an/A
Your Proposed Outcome	an/A	an/A	ats/A	#N/A	Suggest that once the consultations are over, a more detailed syllabus (similar to the Mo Model course) with Data Science action verbs (define, analyse, explain, etc.) be published as a Milk or MGN notice. This will help guide teachers on what needs to be taught, in what detail, and will help standardise education in all colleges.	ut-(A	atst/A	BN/A	an/a	aths/A	an/A	BN/A
Your Rationale for this outcome	#N/A	#N/A	#N/A	#N/A	To help guide teachers on what needs to be taught, in what detail.	#N/A	#N/A	#N/A	an/A	#N/A	#N/A	#N/A
Your Action for this outcome	#N/A	#N/A	#N/A	#N/A	This will help standardise education in all colleges.	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
Sub-Group 1.2 Response	#N/A	#N/A	#N/A	#N/A	Many thanks for your feedback. Following the compltion of the syllabus review the finalised modules	#N/A	#N/A	#N/A	an/A	mn/A	#N/A	#N/A

Role	2nd Engineer						
Organisation	International Shipping Company						
Module	Marine Engineering - Process Control						
Your Feedback -	Ensure to add ISO 14726 (Pipe colour coding) in any						
Outcome 1	understanding of pipework						
Sub-Group 1.2	Many thanks for your feedback, we are in						
Response	agreement and have added to the outcome.						
Your Feedback -	N/A						
Outcome 2							
Sub-Group 1.2	N/A						
Response							
Your Feedback -	N/A						
Outcome 3							
Sub-Group 1.2	N/A						
Response							
Your Feedback -	N/A						
Outcome 4							
Sub-Group 1.2	N/A						
Response							
Your Feedback -	N/A						
Outcomes							
Above and							
Beyond							
Sub-Group 1.2	N/A						
Response							

No feedback requiring a response was received for the module Marine Engineering - Fundamentals of Control Systems.

		Fleet Training and					
Role			Vessel Manager	Maritime Standards Manager	Vice President	Chief Officer	Marine Lecturer
Organisation	Maritime Charity	International Shipping Company	Offshore Company	Government Administrative Body	International Shipping Company	Freelance	N/A
Module	Deck - Celestial Navigation	Deck - Celestial Navigation	Deck - Celestial Navigation	Deck - Celestial Navigation	Deck - Celestial Navigation	Deck - Celestial Navigation	Deck - Celestial Navigation
Your Feedback - Outcome 1	#N/A	#N/A	#N/A	#N/A	1.2. DISAGREE with Remove. Imperative to understanding these fundamentals in the use of a sextant and calculations	#N/A	A sextant is not carried by some categories of seagoing vessels coded by the MCA. This must mean that that the principles are not an important feature of safety at sea in modern vessels. There have been no incidents investigated by the MAIB which found that the use of sextant would have prevented the incident.
Sub-Group 1.2 Response	#N/A	#N/A	#N/A	#N/A	Many thanks for your feedback. While we appreciate your point of view, the overwhelming feedback from the industry consultation has been to agree with our suggestion.	#N/A	Many thanks for your feedback. While we appreciate your point of view, the overwhelming feedback from the industry consultation has been to agree with our suggestion.
Your Feedback - Outcome 2	#N/A	#N/A	Primary method can be moved to a computer based system but the underpinnings of the knowledge on how to do things if the computer system fails should still be required.	Whilst there is no objection to including reference to Celestial Navigation Computer Software in teaching in this area. Manual calculation (with the use of basic scientific calculator to aid calculation using the basic formulae) should remain the primary examinable and instruction method.	#N/A	#N/A	The recommendation in place suggest the use of computer programmes for astro calculations - it is worthy of note that there are very few modern/recent programmes for these calculation since they are not required even to make landfall without GNSS.
Sub-Group 1.2 Response	#N/A	#N/A	Many thanks for your feedback, we are in agreement and have attempted to represent this in our suggested actions.	Many thanks for your feedback, while we are in agreement that manual calculation should still be taught, the opinion of the working group is that it should be taught as a contingency method. The feedback received from the industry consultation supports this point of view.	#N/A	#N/A	Many thanks for your feedback, it has been noted.
Your Feedback - Outcome 3	3.1 A really vital piece of knowledge that should be known how to be completed by hand before considering electronic aids. In my experience, not all vessels have the electronic 'navpack' facilities and these calculations are still required to be done by hand every watch.	#N/A	#N/A	Celestial Navigation Computer Software has a place in cadet training but must remain a secondary method unless and until the carriage of such software becomes a statutory requirement	#N/A	#N/A	#N/A
Sub-Group 1.2 Response	Many thanks for your feedback, while we are in agreement that manual calculation should still be taught, the opinion of the working group is that it should be taught as a contingency method. The feedback received from the industry consultation supports this point of view.	#N/A	#N/A	Many thanks for your feedback, while we are in agreement that manual calculation should still be taught, the opinion of the working group is that it should be taught as a contingency method. The feedback received from the industry consultation supports this point of view.	#N/A	#N/A	#N/A
Your Feedback - Outcome 4	#N/A	#N/A	#N/A	Celestial Navigation Computer Software has a place in cadet training, but manual calculation must remain the primary and examinable method (including the use of a standard scientific calculator to simplify calculations using standard formulae) unless and until the carriage of such software becomes a statutory requirement for all vessels.	#N/A	#N/A	#N/A
Sub-Group 1.2 Response	#N/A	#N/A	#N/A	Many thanks for your feedback, while we are in agreement that manual calculation should still be taught, the opinion of the working group is that it should be taught as a contingency method. The feedback received from the industry consultation supports this point of view.	#N/A	#N/A	#N/A

		1	ı	1		T	
Your Feedback - Outcomes Above and Beyond	#N/A	This needs to be data analytic skills, not data science	#N/A	There should be no specific examinable topic of 'Data Science Skills' within the Cadet training syllabus, nor should such skills form part of formal Cadet assessment, unless and until it becomes formally part of STCW. These skills can be developed informally within the various subjects during training.	#N/A	#N/A	#N/A
Sub-Group 1.2 Response	#N/A	Many thanks for your feedback. Please note that Data Analysis Skills are included within the topic of Data Science.	#N/A	Thank you for feedback, it has been noted. This is a topic which we are looking to introduce above an beyond the requirements of STCW, in order to future proof the skills of seafarers. It will be included as a UK recommendation as part of the IMO's comprehensive review of STCW.	#N/A	#N/A	#N/A
Your Proposed Outcome	#N/A	#N/A	#N/A	#N/A	#N/A	Remove 'rendevous at sunrise' as an essential element. Clarify the sweeping term 'modernise' . yes by all means include the apps that can be used instead of hand written lengthy calculations using an almanac where finite interpolations are required but also accept that celestial is an art and 'optional' and not voyage critical for many vessels - it cannot be done whilst bouncing around the North sea in winter etc	There is a need for a top down review of the OOW level training requirement and outcomes to ensure that the syllabus fully recognises the procedures used in modern vessels with modern equipment fits.
Your Rationale for this outcome	#N/A	#N/A	#N/A	#N/A	#N/A	Frustrating having its apparent importance drilled into us as students but never actually used since leaving college, including equator crossings etc	However automated/modern a vessel is there is a requirement for bridge watchkeepers to be fully trained in the tasks that they will have to perform including fall-back procedures and emergency operating procedures. This means that the modern OOW will need to have a thorough understanding of the principles of navigation including knowledge of past procedures. But the focus should be on the use of modern equipment that is used at sea (and not just brought out for training purposes). A modern bridge employs highly complicated and technical systems with integration of aids to navigation and control systems. Understanding the basic theory will be important along with the implications of failures of individual/multiple equipment's or even complete system failures. The OOW must be comfortable operating in this environment and know his own limitations in ascertaining the accuracy of the information provided to him.
Your Action for this outcome	#N/A	#N/A	#N/A	#N/A	#N/A	More details in the the proposal.	Much more importance needs to be given to modern system training including exposure to failure and backup modes (using computer training and simulation). To make room for this element it will be important to reduce the emphasis on outdated navigation techniques and procedures. It is interesting that the recommendations included in this consultation include moving to computer based Celestial Navigation when these programmes have already been in use for some 40 years! The MCA needs to ensure that UK training remains at the forefront of worldwide maritime training and this will require a shift from historic teaching. The proliferation in modern equipment including Gyros, ECDIS, Inertial navigation systems, and software will mean that many ships will be reducing bridge watchkeeping capacity and increasing automation. The modern bridge watchkeeper will need the skills to manage systems and with the rapid increase on the deployment of 5G satellites is most unlikely to need to take out a sextant and do any manual calculations.
Sub-Group 1.2 Response	#N/A	#N/A	#N/A	#N/A	#N/A	Many thanks for your feedback. Rendezvous at sunrise is a mix of celestial navigation and plane sailing and, as such, provides a useful assessment tool to provide a real life situation to test Cadets. We have attempted to clarify what we mean by modernise throughout the template by providing an action and the rationale for the action.	Many thanks for your feedback. We are in agreement that the Cadet training syllabi require a review and updating. We hope to achieve this goal through the modernisation process.

No feedback requiring a response was received for the module ETO - Electrical Systems in Potentially Explosive Environments.

No feedback requiring a response was received for the module ETO - Electrical Safety.