No feedback requiring a response was received for the module ETO - Analogue Electronic Principles.

No feedback requiring a response was received for the module ETO - Applications of PLC.

No feedback requiring a response was received for the module ETO - Implementing Small Local Area Networks.

Role	Captain	Engine Cadet	Marine Engineering Cadet	Engineering Sub Group	Designated Person Ashore	Vice Principal
Organisation	Non-Governmental Organisation	International Shipping Company	N/A	Professional Representation Body	International Shipping Company	Nautical College
Module	Marine Engineering - Stability and Structure of Merchant Ships		Marine Engineering - Stability and Structure of Merchant Ships	Marine Engineering - Stability and Structure of Merchant Ships	Marine Engineering - Stability and Structure of Merchant Ships	Marine Engineering - Stability and Structure of Merchant Ships
Your Feedback - Outcome 1	#N/A	not work. Lecturers and this new software program should work	It is difficult to answer "yes" or "no" to some of these recommendations. The theory feels too abstract to be applied while at sea. It can be tough material which makes it even harder if you feel like it won't be used on a practical level.	#N/A	#N/A	#N/A
Sub-Group 1.2 Response	#N/A	Many thanks for your feedback, it has been noted. Please be assured there is no intention to remove lecturers. The lecturers will need to demonstrate how loading computers work and much more.	Many thanks for your feedback, it has been noted. We hope that the introduction of the practical elements, such as loading computers, will help ensure that cadets understand the practical impacts on a vessel, rather than it being an abstract concept.	#N/A	#N/A	#N/A
Your Feedback - Outcome 2	I agree with all the recommendations, but I think some mention needs to be made of automated systems in stability management. Heeling tanks and remote tank gauges are simple examples, but there is an increasing number of systems that, for example, automatically conduct a short inclining experiment to calculate GM or automatically transfer ballast to achieve a desired outcome. Cadets should be aware of the risks associated with automated systems, and learn how to manage them in each situation (eg. sensor failure, cyber attack on computer-controlled pump systems, etc.).	#N/A	It is difficult to answer "yes" or "no" to some of these recommendations. The theory feels too abstract to be applied while at sea. It can be tough material which makes it even harder if you feel like it won't be used on a practical level.	#N/A	#N/A	More emphasis to be put on conceptualisation rather than mathematical problem solving.
Sub-Group 1.2 Response	Many thanks for your feedback, it has been noted. Automated systems are certainly prevelant at sea and should already be covered in this outcome as they are currently relevant technology.	#N/A	Many thanks for your feedback, it has been noted. We hope that the introduction of the practical elements, such as loading computers, will help ensure that cadets understand the practical impacts on a vessel, rather than it being an abstract concept.	#N/A	#N/A	Many thanks for your feedback, it has been noted. We hope that the introduction of the practical elements, such as loading computers, will help ensure that cadets understand the practical impacts on a vessel, rather than it being an abstract concept.
Your Feedback - Outcome 3	#N/A	#N/A	#N/A	3.4 not available to select. 3.4 suggested is Rudder Construction. This is included in Naval Architecture unit, should be removed from Naval Architecture unit if it is to be included here	Outcome 3 - Agree needs modernisation - but to include ALL ship types - not just standard cargo ships. Heavy lift ships, barges, semi-subs etc.	#N/A

					1	
Sub-Group 1.2 Response	HN/A	#N/A	HN/A	Many thanks for your feedback. Apologies for the missing question for 3.4, we appreciate your feedback. While rudders are covered in the Naval Architecture module, it is in the context of balance, resistance and stress calculations. The introduction of rudders in this outcome would cover their construction.	Many thanks for your feedback, it has been noted. However, we will be unable to teach every single vessel type in depth, this outcome is purely focussed on the basic ship construction. We are in agreement that all ship types should be covered as this is an unlimited Certificate of Competency.	#N/A
Your Proposed Outcome	Just as data science and human elements need to be included throughout the syllabus, so does an understanding of automated systems, how they work (at a high level), their risks, and how to manage them.	#N/A	#N/A	#N/A	More modern ships types to be included. And more practical examples - i.e loading of a container ship, not a weight in such and such a position.	#N/A
Your Rationale for this outcome	While automated systems such as autopilots are already widely used at sea, the use of complex automated systems is increasing, up to and including marine automated surface ships (MASS). The current training does not cover key skills such as: - identifying when there is a fault in an automated system - understanding how system inputs and processes affect the outputs - the risks of over-reliance on apparently reliable systems, and the human elements involved (complacency, trust)	#N/A	#N/A	#N/A	Ship types have changed considerably in a short period of time.	#N/A
Your Action for this outcome	Include a general module on automation awareness, including topics such as: - what is a system? - the relationship between inputs, processes and outputs - relevant terminology - the strengths, weaknesses and failure modes of common sensors, how the failure could impact the automated system, and how the seafarer can realise there is a problem In addition to the specific module, ensure that automated systems are discussed, where relevant, throughout the syllabus.	#N/A	#N/A	#N/A	Additional modules on non typical cargo vessels.	#N/A
Sub-Group 1.2 Response	Many thanks for your feedback. We are in agreement with your suggestions, however,	#N/A	#N/A	#N/A	Many thanks for your feedback. We are in agreement with your suggestion and believe this has been reflected through our suggestion contextualise many of the outcomes to show how they practically apply to modern ships.	#N/A
Your Proposed Outcome	#N/A	#N/A	#N/A	#N/A	Modern stability software.	#N/A
Your Rationale for this outcome	#N/A	#N/A	#N/A	#N/A	Major changes in stability software available on most vessels, including heavy lift type vessels.	#N/A
Your Action for this outcome	#N/A	#N/A	#N/A	#N/A	Expansion of modules.	#N/A
Sub-Group 1.2 Response	#N/A	#N/A	#N/A	#N/A	Many thanks for your feedback, we are in agreement and have made this suggestion for all outcomes in this module.	#N/A

Role	Designated Person Ashore
Organisation	International Shipping Company
Module	Marine Engineering - Naval Architecture
Module	(Management Level)
Your Feedback -	N/A
Outcome 1	N/A
Sub-Group 1.2	N/A
Response	
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	
	4.1 - Modernise for all ship types -
	offshore vessels etc,
Your Feedback -	4.7 - Update for modern vessels - azimuths
Outcome 4	etc, not just traditional rudder and
	propeller designs
	Many thanks for your foodback
	Many thanks for your feedback.
	Outcome 4.1 is simed to cover all ship
	Outcome 4.1 is aimed to cover all ship
Sub Croup 1.2	types already.
Sub-Group 1.2	Many thanks for your suggestion on
Response	Many thanks for your suggestion on outcome 4.7, we have taken it onboard
	and will amend the outcome from
	"Rudders" to "Control Systems" to ensure
	modern systems are included.
Your Feedback -	
Outcomes Above	N/A
and Beyond	
Your Proposed	N/A
Outcome	
Your Rationale for	N/A
this outcome	
Your Action for this	N/A
outcome	
Sub-Group 1.2	N/A
Response	

Role	Maritime Standards Manager	Vice President	Lecturer	Captain	Designated Person Ashore	Third Officer	MASTER MARINER (UNLIMITED) - MENTOR
Organisation	Government Regulatory Body	International Shipping Company	University	Motor Yacht	International Shipping Company	National Shipping Company	Professional Representative
Module	Deck - Marine Cargo Operations	Deck - Marine Cargo Operations	Deck - Marine Cargo Operations	Deck - Marine Cargo Operations	Deck - Marine Cargo Operations	Deck - Marine Cargo	Body Deck - Marine Cargo
Your Feedback - Outcome 1	 and exclosion, and the use of lasting company, hypothesis theory is includent in the hypothesis of this higher is hubble in the higher is hubble in the intermediate in the higher is and hypothesis of the higher is the agence of the traditional methods and with dise regard to the fact that of a tablety or requirements and isolativy guidelines is considered most deviated of the higher requirements and isolativy guidelines is considered most deviated particles with regard the "lifetime" cargo generative. 13. the focus must be on the traditional methods of any cardinal cardinal and simulations within this subject must not care at the spense of providing must be required. 	BN/A	Outcome 1.1 - Location and a standard series of the control of the contrel of the contrel of the	Without onessing the applicable title any plot a much point however surely this and the time of the set in one region end control of a set of a set of the equipment no longer being used.		Descritors	Operations BN/A
Response	Many thanks for your feedback. Regarding points 1.1 and 1.5, we are in agreement, the underpinning knowledge must still be covered. However, candidates must also be exposed to the equipment they will encounter onboard a vessel.	BN/A	Many hanks for your feedback. Regarding outcome 1.2, we apprecise that a list of codes, resolutions and Sk would prove suiful. However, we are also mindful not to make the syllabus overly prescriptive as this can lead to issues as technology advances. We will develop the correct balance within our academic guidance published after this consultation. Your suggestion regarding outcome 1.3 is a good idea and is undertaken by some colleges already. We will certainly suggest it as a world teaching ad but cannot make it mandatory as not every college will be able to facilitate.		module and will continue to be taught. At this high level document, we are not covering specifics but this will be included in module descriptors. However, please note that the LIK ODW Unlimited COL is STCW anonemed and allows an	an/A	mn/A.
			While we appreciate that many UK Officers do work on multiple vessel types, such as tankers as CTVS, the UK GOW Unlimited GoC is STCW approved and allows an Officer to work on any vessel, as such all forms of cargo must be covered to allow the CoC to be classed as unlimited.		Officer to work on any vessel, as such all forms of cargo must be covered to allow the CAC to be discusd as unlimited and, as such, cannot become overly specific on one type of vessel.		
	still include the principles and practice for older systems still at sea. GHG	2.2 - Rodard yalli has high level of incidents with has formy this section much bolisting to resolve a section operation / <i>Caltural</i> / envirogency response. Regional environmental factors	It tends appear with 2.1 to 2.5 Outcome 2.5 and 2.7 Charden for futures - multip grade - crago excludations - too theoretical and not of any practical use for a 3rd and 2nd officer. This is best keys for Ohier Officer sylabue, it is too specialised and intracts for a person who will not even work as 3 of different names. Store of an example, the synapse	an(A.	Outcome 2 - needs to be modernical especially for supply weeks - need to the source of the second se	athy/A	2.5.: Include importance of official Balancia glock, required to evidence protection of unique exclogy, in different Sea areas.
Response	Many thanks for your freedback. Regarding all the outcomes you have mentioned, we are in agreement, the underprinning knowledge must still be covered. However, candidates must also be exposed to the equipment they will encounter onboard a vessel.	Many thanks for your feedback. We agree with your suggestion for outcome 2.2 and have included it in the updated module. The factors you have mentioned for outcome 2.5 are already covered within this outcome.	Many thanks for your freeback. We believe that this has been covered through our suggestion to teach these outcomes with a more contestualised approach, focussing on orboard practice.	at(),	Many thanks for your feedback. Outcomes 2 and 2.5 already cover a range of vessels, including those such as supply vessels, etc For outcome 2.2, we have added an extra suggestion from industry feedback includen more humen denent factors in this outcome, if you have any further suggestions to improve the outcome, please contact us at	BN/A	Many thanks for your feedback. The factors you have mentioned for outcome 2.5 are already covered within this outcome.
Your Feedback - Outcome 3	It is agreed that the teaching of this area is at present satisfactory and meets current needs	Include all cargo type tale operations and pertaining lightlaton (inc. storedge - forking / ar & trailer listeding / humering / working at hegits - containers)	Agree with nearly all of these. For 1.1 The 1.	BN/A	condition managing the managed considerably and continues to do a see drave track to happed considerably and the output to do a see drave tracks in Galf of Adm and Nerway. New madematation of actumy part in consense and a second second second second second second second all Some Tags and countries have adopted LOLER and there are Class considerations.	Have more training on emergency response. Case studies. Performance in decision critical moments.	EN/A
Response		Many thanks for your feedback. We believe that these should already be covered by outcomes 3.2 to 3.5.	Many thanks for your feebback. We believe that RoBo vessels should already be covered adequately by colleges, outcome 1.5 covers the whole of COSWP, including the chapter regarding RoBos. With regards to outcome 3.7, while we apprecise that more fronc acade be given to more common emergency scenarios, the syllabus is not the place to define this as these trends can change. This should be monitored by the colleges and focus applied as appropriate as per their continuous professional development requirements.	m/A	are covered, however the wording of this outcome already allows for these to be updated within the syllabus content. With regards to 3, LOLER is covered in the Management Level module.	Many thanks for your feedback, we are in agreement and have added this suggestion to outcome 3.7.	#N/A
		To add: Awareness of all sources of overboard discharges / environmental requirements Air and noise pollution Environmental stewardship and future sustainability	4.2. Suggest reframe this as "SMPEP and SOPEP" due to a difference in these two nearly equally important topics.	Consider further sub-outcomes, for example on Inventory of Hazardous Materials, Ballast and Antifouling which all have specific requirements	4.3 - Needs modernisation. New legislation on Inventory of Hazardous Materials is now in place.	#N/A	nN/A.

		Many thanks for your feedback.	Many thanks for your feedback.	Many thanks for your feedback.	Many thanks for your feedback.	Many thanks for your feedback.	luura	lante
Re	-Group 1.2 ponse	Many thanks for your feedback.	Many thanks for your feedback.	Many thanks for your feedback.	Many thanks for your feedback.	Many thanks for your feedback.	#N/A	#N/A
		Ballast Water Management is an important topic, however, we feel it has already been covered in outcome 1.1 through our suggestion to "include statutory requirements and industry guidelines (IMO, ICS, etc)" which would include the BWMC.	already.	SOPEP Is already covered within outcome 4.1.	Ballast Water Management amd antifouling are important topics, however, we feel they have already been covered in outcome 1.1 through our suggestion to "Include statutory requirements and industry guidelines (IMO, ICS, etc)".	This has been noted and we will add to the syllabus.		
		IRANAD ARE DITTING			With regards to the inventory of hazardous materials, this has been noted and we will add to the syllabus.			
010	comes Above (Beyond	I do not feel that the UE should more alread of TAMD and therefore do not feel that the time is right for TAMD sciences shift to be sught as a superclic topic, anamined or count towards a codef is assessment: until charges to STCM are used to the time of the various elements within the training.		 Net observations to some suggestions - 1. Suggest add a mathematic yields the too taken, one now and one dy cargo terminal - organised by the sponsoring company, and guided by the training collegy / university staff and lecturers - so that our officers at least get to see, first band, how cargo terminal - organised by the sponsoring company, and guided by the training collegy / university staff and lecturers - so that our officers at least get to see, first band, how cargo terminal - organised and more dy cargo terminal - organised by the sponsoring company, and guided by the training collegy / university staff and lecturers - so that our officers at least get to see, first band, how cargo terminal - organised and discharged. Their intervices involvinge to their 11 months of use times. Since the above is not done currently, that means we have near landed up with more than half of our officers who have no particular date of how cargo is baded and discharged. Their intervices involvinges to to shallow, as merchant shipping operations how a large particularly to them which is impossible to gain / least of all who with a first officers - so wells as the companies themselves. The generating company is best studed to organise this, as when as it companies to the same gain of a large data discharged to any other as a strating in accordance with the samemake changes as required to comply with your guidelines. One generation we the final disclosion that you all make, so that we can frame our traching in accordance with the same. The same company is best student, you all make, so that we are all on the same page, and are huly asair of what the MCA and autions intert was. That will help all universities and colleges, and hence the students who come to us for their learning. That you all for this escellent consultation, your actions and work, and for this opportunity for us to give you our feebasck. 	Strongly agree with points 1 & 2	au/A	en (A	89/A
Su Re	ponse	Thank you for feedback. It has been noted. The share of the feedback was an independent of the setting of the		Many thanks for your fixedback, this been noted. Your suggestion regarding: ship withs is a good date and is undertaken by some colleges shready. We will certainly suggest it as a welf at teaching and but connot make it mandatory as not every college will be able to facilitate. We below that this have been kets in mind through the design of the cadet phase structure with phase one being short, followed by a botter first sas phase. The bulk of learning and seagoing service is included in Phases 3 and 4. This is not the appropriate forum to take this work forward. However, if you would like to discuss further, please email classific emails emailing any well. Please be advised that these templates will be converted into academic guidance templates and circulated to the natical colleges for implementations.	Many thanks for your feedback, It has been noted.	ett/A	en/A	an/A
Yo	r Proposed .come	BN/A	Presume the MNTB Cadet Record Training Book will reflect and align to this update syllabus? Any opportunity to create an electronic record book?		This maybe more relevant to the Mates level however there is no exam for a Chief Mate (γ)-30000 T from an OOW scient (only short courses and time served) os is definitely relevant in the systeming science. There should be further expansion on management theory and interpersonal skills from the very beginning of ones caree. Only by starting early can the emphasis be placed on the importance of these soft skills.	zh(A	BN/A	IN/A
	r Rationale for outcome	zn/A	See above	RN/A	In my experience junior Officers have an extremely varied level of awareness and ability when it comes to soft skills	#N/A	#N/A	πN/A
	r Action for outcome	en/A	Suggest review and implement as above	BN/A	Educate people at the start of their careers in soft skills such as leadership and personnel management	#N/A	an/A	#N/A
Su Re	-Group 1.2 ponse	anya	Many thanks for your feedback. We can confirm that the Training Record Book (TRB) will be reviewed upon completion of the syllabus and accessment reviews, in order to reflect the updated patientials. The Weinchn Khay Training Boord is in the process of developping an electronic TRB system		Many thanks for your feedback. We are in a genement and have attempted to include Human Element Factors moughout the sylation in order to demonstrate why they are important and from they can be used in proctice at sec.	en/a	an/A	an/A

Role	Marine Standards Manager	Marine Standards Manager	Vice President	oow	Third Officer	Captain	Designated Person Ashore
Organisation	Government Regulatory Body	Government Regulatory Body	International Shipping Companny	International Shipping Companny	International Shipping Companny	Motor Yacht	International Shipping Companny
Module	Deck - Management of Vessel Operations	Deck - Management of Vessel Operations	Deck - Management of Vessel Operations	Deck - Management of Vessel Operations	Deck - Management of Vessel Operations	Deck - Management of Vessel Operations	Deck - Management of Vessel Operations
Your Feedback - Outcome 1	developments but also the traditional methods still in use on older vessels that the future deck officer and cadet may serve on. I would be reluctant to see the basis	1.1 It is necessary for the training to cover all types of general cargo vessels and whilst there is a place for including examples of Loading calculators 'relevant software' and simulation this should not be at the expense of the ability of the young officer to use first principles where such items are not available and also that there are a far wider variation of electronic aids to cargo operations then can be covered. Legislative requirements do not rely on loading calculators (except for carriage). 2.1 introduction of training in the use of electronic aids to cargo securing management and control must not be at the expense of first principles and traditional practices which are still in use.		#N/A	#N/A	#N/A	Modernise for heavy lifts as well - barge lift vessels.
Sub-Group 1.2 Response	Many thanks for your feedback, it has been noted. While we are looking to modernise this outcome to include practices on board modern vessels, the underlying principles of dry cargo operations will remain.	Many thanks for your feedback, it has been noted. While we are looking to modernise this outcome to include practices on board modern vessels, the underlying principles of dry cargo operations will remain.		#N/A	#N/A	#N/A	Many thanks for your feedback. This is already covered within the indicative content for this module and will continue to be taught. At this high level document, we are not covering specifics but this will be included in module descriptors.
Your Feedback - Outcome 2	equipment/ relevant software/ and Simulators is sufficiently generic to cover	2.1 The rationale is fine but, whilst covering examples of the electronic aids to liquid cargo operations has its place, it should not be at the expense of the basics. I do not consider that the BMC should be within the section on Bulk Liquid cargoes in the syllabus, being equally relevant to all types of vessels it would be better potentially covered under control of pollution pollution. Use of electronic aids to liquid cargo operations has its place but should not be at the expense of older methods and first principles. Including the other latest legislative requirements is essential. 2.2 no objection to including examples of electronic to liquid cargo amaagement and control but not at the expense of first principles. Current legislative requirements and best practice should orther subjects.	#N/A	#N/A	#N/A	#N/A	Outcome 1 - Modernise for all types of liquid cargoes as well - potable water, fuel, brine, muds etc.
Sub-Group 1.2 Response	Many thanks for your feedback, it has been noted.	Many thanks for your feedback, it has been noted. While we are looking to modernise this outcome to include practices on board modern vessels, the underlying principles of liquid cargo operations will remain. With regards to BMC, we agree, this is not only relevant to Bulk Liquid Cargo and we have added to Outcome 1.1 to be covered in the context of dry cargo vessels as well.	#N/A	#N/A	#N/A	#N/A	Many thanks for your feedback. We are in agreement and these are already covered within the syllabus.
Your Feedback - Outcome 3	completely agree with the approach in all areas, however passenger control and monitoring also needs to focus on control in the wider sense such as dealing with criminal acts and Flag state responsibility.	overly focussed on emergency operations, there are also wider aspects of control and legislative aspects of the handling of passenger complaints	passenger counting (Souls on Board requirement), effective management and communication, mobility (particularly emergency). STCW	More emphasis required during cadet theory training for all passenger operations. Very small amount of legislative areas covered in regards to passenger operations. From my experience there is next to no passenger legislative theory taught in cadet college work - maybe this was college specific	successful pax operations in emergency. Also emphasis the moral responsibility aspect. This country's Ship's officers have a reputation for	Is there any mention of the specific requirements of the yachting sector? Control of a small number of passengers is a very different scenario to crowd control, this could be in the way of a separate sub-outcome or included in 3.2. Especially when they are the Ultimate Beneficiary Owner and perceive their rights to be greater than that of "just" a passenger.	#N/A

	Many thanks for your feedback.	Many thanks for your feedback.	Many thanks for your feedback.	Many thanks for your feedback.	Many thanks for your feedback.	Many thanks for your feedback.	#N/A
Response	We are in agreement, however, these aspects are covered in the business and law module.	We are in agreement, however, these aspects are covered in the business and law module.	We are in agreement and have reflected this in our recommendation for outcome 3.2.	This should already be covered under outcome 3.1 and also in the Business and Law module.	We are in agreement and will add the use of successful case studies to outcome 3.2.	While this would not be covered under passenger operations, owing to yachts not being classed as passenger vessels, this would be covered in human factors and leadership modules.	
Your Feedback - Outcome 4	Please ensure that whilst the use of loading computer, 'relevant software' and 'simulators is introduced the basis principles and ability to achieve the aim using traditional methods is retained.	4.1 agree wrt inclusion of aspects of polar operations 4.2 4.3 & 4.4 Teaching with respect to examples of electronic aids to liquid cargo calculations, stowage factors and broken stowage and draft surveys have their place as does some use of simulation but the ability to carry out such calculations from first principles in the traditional manner better aids understanding of the issues.	#N/A	#N/A	#N/A	#N/A	#N/A
Sub-Group 1.2 Response	Many thanks for your feedback, it has been noted. While we are looking to modernise this outcome to include practices on board modern vessels, the underlying principles will remain.	Many thanks for your feedback, it has been noted. While we are looking to modernise this outcome to include practices on board modern vessels, the underlying principles will remain.	#N/A	#N/A	#N/A	#N/A	#N/A
Your Feedback - Outcomes Above and Beyond	as an examinable topic at Cadet level is unnecessary and whilst such skills can be	Data Science Skills can be included in various areas however UK should not move ahead of IMO and therefore a specific topic whish is either examinable or forms part of a cadets assessment should await STCW changes. work may usefully be carried out to cover Liquid Hydrogen Cargo within the general cadet syllabus for deck and engine departments,	#N/A	#N/A	Human element - there is a lack of command, leadership and management training and we need to make leadership training better. Perhaps consult the RN or RFA for guidance.	Human element factors can be expanded upon in vessels that normally carry passengers further.	#N/A
Sub-Group 1.2 Response			#N/A	#N/A	Many thanks for your feedback. We are in agreement that Human Elemant Factors should be expanded upon and are actively engaging with subject matter experts to improve this topic.	Many thanks for your feedback. We are in agreement that Human Elemant Factors should be expanded upon and are actively engaging with subject matter experts to improve this topic.	#N/A
Your Proposed Outcome	#N/A	#N/A	#N/A	Overall more passenger targeted theory work required during cadet college phases. A large number of UK cadets will come to work on passenger vessels and training always seemed to be cargo targeted. Particularly in the management of vessel operations unit there could be more targeted learning outcomes for passenger operations to require the colleges to deliver this. Legislation, certificates in particular are areas I've found that I'm lacking in knowledge after coming to work for a large cruise company after completing my uk Dow.	#N/A	#N/A	#N/A
Your Rationale for this outcome	#N/A	#N/A	#N/A	Cargo work in college was very useful and some transferable skilled gathered, however still feel the college training was cargo bias and avoiding the passenger side of industry. Units added for more particular passenger operations would be beneficial.	#N/A	#N/A	#N/A
Your Action for this outcome	#N/A	#N/A	#N/A	Change/update in syllabus to target passenger Oow candidates.	#N/A	#N/A	#N/A
	#N/A	#N/A	#N/A	Many thanks for your feedback. While we appreciate that many UK Officers do work on board passenger vessels. The UK OOW Unlimited CoC is STCW approved and allows an Officer to work on any vessel, as such all forms of cargo must be covered to allow the CoC to be classed as unlimited.	#N/A	#N/A	#N/A

No feedback requiring a response was received for the module Marine Engineering -Pneumatics and Hydraulic Systems.

Role	Second Officer	DPA	Captain	Maritime Standards Manager	Vice President	Curriculum Manager	Master	Deck Cadet	Captain	Designated Person	Third Officer	MASTER (UNLIMITED)
Organisation		National Shipping Company	Non-Governmental Organisation	Governmental Regulatory Body	International Shipping	Nautical College	UK Dredging	N/A	Motor Yacht	Ashore International Shipping	National Shipping Company	Professional Representative Body
-		Deck - Navigational Mathematics and Science		Deck - Navigational Mathematics and Science	Company	Deck - Navigational Mathematics and Science	Deck - Navigational Mathematics and Science	Dock - Navigational	Deck - Navigational Mathematics and Science	Company Deck - Navigational	Deck - Navigational Mathematics and Science	Deck - Navigational Mathematics
Module	Deck - Navigational Mathematics and Science	Deck - Navigational Mathematics and Science	Deck - Navigational Mathematics and Science	Deck - Navigational Mathematics and Science	Mathematics and Science	Deck - Navigational Mathematics and Science	Deck - Navigational Mathematics and Science	Deck - Navigational Mathematics and Science	Deck - Navigational Mathematics and Science	Mathematics and Science	Deck - Navigational Mathematics and Science	and Science
Your Feedback - Outcome 1	BN/A	#N/A	be demonstrated on ECDIS to enable seafarers to identify the possible errors. This does not go far enough. While ECDIS is currently the main navigational system on most ships, automated systems including decision support systems and augmented reality systems are already commercially available and in use. In addition,	on ECDIS and traditional methods MUST be maintained. ECDIS aspects should only be introduced AFTER the basics have been mastered from First principles. 14.15 & 1.4 G being able to use ECDIS for these calculations and recognise errors is important BUT understanding from first principles and the ability on perform the calculations in a traditional manner mus not be lost. I work and snow away from		I totally agree with outcome 1, and although I have said no for some outcomes, It sin't strictly a no. What I am asking is, assuming paper charts are going to be fully removed, how will his training here place. A modern ECDIS will work out your 'humb lines' 'great circles' and all other things, so I would agree that it is important to understand these terms and what here ymean, but how necessary is I, moving forward, to be able to construct them? Again, for ETA calculations, ECDIS works this out for the user. Would it be better for the user to understand this, and set up their ECDIS in aproper manner to forward, then a simple speed/distance/time mental maths verification by the user to make sure the ECDIS is correct based on required speeds throughout the journey, then a simple speed/distance/time mental maths verification by the user to make sure the ECDIS is correct. I don't see the relevance of a long winded process of working out ETA's speed requirements etc when modern methods remove this element. Maybe MGN 379 should also be amended about over reliance of ETA's etc? If we are to modernise, then should we not be doing what happens on a ship rather then teaching methods which may no longer have the relevance that they once did have.		Morse Code seems to be very outdated for the most part.	8N/A	#N/A	#N/A	PN/A
Sub-Group 1.2	#N/A	#N/A	Many thanks for your feedback.	Many thanks for your feedback.	Many thanks for your	Many thanks for your feedback.	#N/A	Many thanks for your	#N/A	#N/A	#N/A	#N/A
Response			While MASS is certainly an imporant topic and will have an impact on the future of shipping, we do not think it is currently the right time to include this topic within this module. While it could certainly be mentioned, we believe there is not currently the background information to add an entire module on MASS, however, we expect this to be developped as further information is produced.	We are in agreement and believe this is reflected in our action required section.	This is certainly a relevant subject, however, it is covered in the Marine Passage Planning module.	We are in agreement with your point regarding covering topics no longer relevant at sea. The intention for teaching this module is to provide seafarers with knowledge of the basic principies of these calculations and how they are relevant to onboard processes. This will allow for crosschecking of automatic calculations we are placing an emphasis on the use of ECDIS and the basic calculations could be used for cross checking and in a contingency situation.		feedback, it has been noted. However, please note that Morse Code is not covered in this module.				
Outcome 2	BN/A	#N/A	8N/A	the inclusion of magnetic compass maintenance is a positive step. Otherwise the subject is being adequately covered at present for junior Officers.			en/A	#N/A	atv/A	#N/A	#N/A	2.2: Include knowledge of placing 'hard' & 'soft' iron correctors, in correcting both Ship's Deviation & Earth's Variation, respectively, in order to understand what Compass Adjuster is doing. Include requirement for proper stowage, away from Bridge, of spare Magnetic Compass bowl.
Sub-Group 1.2 Response Your Feedback -		#N/A	#N/A #N/A	Many thanks for your feedback, it has been noted.	feedback, it has been noted.	Many thanks for your feedback, it has been noted.	BN/A	8N/A 8N/A	#N/A #N/A	#N/A #N/A	#N/A	Many thanks for your feedback, it has been noted. As per the rationale, we believe this an QOW should understand the basic knowledge to assist and understand the work of a compass adjustor. The topics you have mentioned would fall into this description.
Outcome 3	₩V/A	#N/A	#N/A	recognition and response to Gyro errors is	=N/A	πη/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
Sub-Group 1.2	#N/A	#N/A	#N/A	considered desirable Many thanks for your feedback, it has been noted.	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
Outcomes Above and Beyond	component of competent bridge watchkeeping and celestial navigation. Can it really be the case that an effective lookout is maintained whilst using a computer programme? I have never encountered a licensed compass error software in 15 years as a Deck Officer. Occasionally I have come across ship-generated excel spreadsheets which show the azimuth of a selected celestial object, but I always thought that the skill should be retained by regularly practicing H.A. And if we regularly practice manual calculations, why do we need computer assistance for a simple calculation? Also, I don't agree that compass error programmes are prevalent on modern vessels - at least not on the 15+ ships I have been on. If this outcome was to be included in the curriculum, I suggest it is limited to an overview of the existence of such programmes, rather than practice tuition on how to use them. A far better use of time would be teaching students how to effectively use star chards, diagrams and other sources of information to determine which celestial body was being observed.		#N/A	Totat Science Skill's should not become an separate examinable or assessible topic unless and until a change is made to STCW. They can be developed informally within relevant subject training inclusion of knowledge of and training in alternative forms of compass is considered desirable even prior to formal SOLAS approval. The knowledge of electronic aids to calculate compass error can be included but not at the expense of calculation manually. It does not need to be part of the formal syllabus		If a compass is not SOLK3 approved, why does it need to be in the syllabus? Most ships have a magnetic log and grow, fiber optic compasses where meant to be the 'next big thing' over 10 years ago, but to my knowledge, haven't really taken off. When at km systudents if they have sailed with a fiber optic compass 99.9% of the time its a no. Quite often people haven't even heard of it. Regarding programmes to determine compass error, I am 100% behind this. This is the modern way and unfortunately, celestial navigation is never used on ships, save for an eager cadet who needs it signing off. Deliver that celestial should be removed and modern software programmes used such as 'nav pac'	increases the risk that the Cadel / Junior officer will be unaware of any significant changes to the errors, potentially identifying it as a calculation error rathes than a compass error. Whilst acknowledging that the need and requirement to use all onboard software is a natural development, to remove the manual calculations required to determine an error may erode the core knowledge and understanding of the cadet in future development.		I would also include a short section on why having 3 gryc compasses is safe due to the assessment on which grup has the error in the event of a failure, (can be capied from the DP syllabus from the NI) The calculation software will always be taught onboard as a more practical alternative and would negate the need for manually working out the required information leading to sull fade. Each ship is likely to use different software and apps and so it would be very difficult for the colleges to keep up to date and ensure relevance		Software used on my ship is admirality NAV pac	#N/A
Sub-Group 1.2 Response	Many thanks for your feedback, it has been noted. While we agree that there is a need to cover the underlying calculations for celestial navigation, and these will still be taught, the response from the industry consultation has indicated that the introduction of calculation software would be desireable.	₿N/A	#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 safarfares. It will be included as a UK recommendation as part of the IMO's comprehensive review of STCW.		Many thanks for your feedback, it has been noted. While we appreciate that non-SOLAS approved compasses are not necessary to be covered by STCW, we believe that by adding this outcome it will allow us to cover any future developments to North-finding technology, therefore futureproofing the syllabus. Many thanks for your support with regards to calculation software.		#N/A	Many thanks for your feedback, it has been noted. While we appreciate your feedback, the intention of this module is to cover the principles of compasses and the relevant calculations, regredues of the number of gyrocompasses on board. Anything specific to DP would be covered within the specific DP course, as you have mentioned.	BN/A	Many thanks for your feedback, it has been noted.	an/A
Outcome		of the subjects covered in this module are necessary to a general level of understanding, we must try to ensure that the requirement to study these topics is not to the detriment of cadets who, although not numerically or technically literate to a high degree, would otherwise make competent and capable Bridge Officers.	throughout the syllabus, so does an understanding of automated systems, how they work (at a high level), their risks, and how to manage them.	eN/A		eh/A	en/A	HN/A	eN/A	consumption - planning, effects and impacts - environmental awareness and cost savings.	Do Not discontinue traditional navigation. It still has its uses. We use vertical sextant angles to check ships position when anchored off Shoreham using the power station. Also include simulator time and helping cadets manage a watch. Navigation, traffic, GMDS2, log book, brm and etc. This will best be achieved if sim time is part of the normal syllabus apart from NAEST.	
Your Rationale for this outcome		As above.	used at sea, the use of complex automated systems is increasing, up to and including marine automated surface ships (MASS). The current training does not cover key skills such as: - identifying when there is a fault in an automated system - understanding how system inputs and processes affect the outputs - the risks of over-reliance on apparently reliable systems, and the human elements involved (complacency, trust)	#N/A	#N/A	#N/A	BN/A	#N/A	BN/A	environmental savings, less emissions through good passage planning, weather routing.	We will produce better navigational officers as a result.	HN/A
Your Action for this outcome	BN/A		Include a general module on automation awareness, including topics such as: - what is a system ? - the relationship between inputs, processes and outputs - relevant terminology - the strengths, weaknesses and failure modes of common sensors, and how it could impact the automated system In addition, ensure that automated systems are discussed, where relevant, throughout the syllabus.	en/A	HN/A	ett/A	en/A	HN/A	eN/A		Sim time Carrying on teaching traditional NAV.	IIN/A

Sub-Group 1.2	#N/A	Many thanks for your feedback, it has been	Many thanks for your feedback.	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
Response		noted.							
			We are in agreement with your suggestion, however, they are not						
		We are moving the emphasis of this module	relevant in this module. These are already covered in the modules						
		towards the use of calculation software,	related to chartwork, bridge watchkeeping and cargo operations.						
		however, we believe that the first principles of	Fault finding would be covered in the ETO syllabus.						
		calculation must still be covered.							

		-	
Many thanks f	or your	Many thanks for your feedback.	#N/A
feedback.			
		We are in agreement that these topics should be covered,	
		however, they are already included in the Celestial Navigation	
these topics sh	nould be	and Bridge Watchkeeping modules. We have suggested the use	
covered, howe		of simulators to enhance teaching at appropriate points	
are already in		throughout the syllabus. In addition, there is an ongoing pilot	
the Marine Pa		project for the introduction of more simulator time as part of	
Planning, appl		the cadet training programme.	
meteorology a	ind		
Chartwork mo	dules.		