

## Proposal to modernise the Methodology of Teaching, Assessment/ Examination

Marine Engineering - STCW III/1 CoC			
Competency/ Module: <b>Marine Legislation and Leadership</b> Marine Law and Management - An Introduction			
Knowledge, understanding and proficiency	Recommendation of working group regarding the outcome and objective.	Rationale	Action required
<b>Outcome1: Explain the relationship between shipboard and shore management structures</b>	Amend	This module was created at a separate time to the equivalent Deck module, this has meant that the two modules cover the same topics but are structured differently. We are proposing to amend this outcome to be taught consistently with the same module in the Deck syllabus. Where outcomes are highlighted in red to indicate they should be removed, the action required column will detail where this outcome will now be covered. Please also consult the <a href="#">fifth group of consultation templates</a> , Deck 10a, 10b and 10c to see the suggested changes to the deck management modules as these will also apply to the equivalent outcomes in this module.	Amend Module title as suggested.  Remove outcome 1, this is now covered in other modules, each sub-outcome will specify where it is now covered.
<b>1.1Shipboard management structures</b>	Amend	We are proposing to amend this outcome to be taught consistently with the same module in the Deck syllabus. Where outcomes are highlighted in red to indicate they should be removed, the action required column will detail where this outcome will now be covered.	Remove, this is now covered in outcome 3.1.

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1.2 Shore management structures	Amend	We are proposing to amend this outcome to be taught consistently with the same module in the Deck syllabus. Where outcomes are highlighted in red to indicate they should be removed, the action required column will detail where this outcome will now be covered.	Remove, this is now covered in outcome 3.1.
1.3 Responsibilities of individuals	Amend	We are proposing to amend this outcome to be taught consistently with the same module in the Deck syllabus. Where outcomes are highlighted in red to indicate they should be removed, the action required column will detail where this outcome will now be covered.	Remove, this is now covered in outcome 3.4.
Outcome 2: Discuss Marine Legislation, on the management of shipboard operations	Amend	This module was created at a separate time to the equivalent Deck module, this has meant that the two modules cover the same topics but are structured differently. We are proposing to amend this outcome to be taught consistently with the same module in the Deck syllabus. Where outcomes are highlighted in red to indicate they should be removed, the action required column will detail where this outcome will now be covered. Please also consult the <a href="#">fifth group of consultation templates</a> , Deck 10a, 10b and 10c to see the suggested changes to the deck management modules as these will also apply to the equivalent outcomes in this module.	Remove this outcome, it will now be covered at the management level in Engineering Module 10b.
2.1 Safety management system (SMS) on ships	Amend	We are proposing to amend this outcome to be taught consistently with the same module in the Deck syllabus. Where outcomes are highlighted in red to indicate they should be removed, the action required column will	Remove, this is now covered in Engineering module 10b, outcome 7.2.

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		detail where this outcome will now be covered.	
2.2 International Safety Management (ISM) Code	Amend	We are proposing to amend this outcome to be taught consistently with the same module in the Deck syllabus. Where outcomes are highlighted in red to indicate they should be removed, the action required column will detail where this outcome will now be covered.	Remove, this is now covered in module 10b, outcome 4.4.
2.3 SOLAS (Safety of Life at Sea)	Amend	We are proposing to amend this outcome to be taught consistently with the same module in the Deck syllabus. Where outcomes are highlighted in red to indicate they should be removed, the action required column will detail where this outcome will now be covered.	Remove, this is now covered in module 10b, outcome 4.1.
2.4 MARPOL (Prevention of Pollution from ships)	Amend	We are proposing to amend this outcome to be taught consistently with the same module in the Deck syllabus. Where outcomes are highlighted in red to indicate they should be removed, the action required column will detail where this outcome will now be covered.	Remove, this is now covered in module 10b, outcome 4.1.
2.5 MLC (Maritime Labour Convention)	Amend	We are proposing to amend this outcome to be taught consistently with the same module in the Deck syllabus. Where outcomes are highlighted in red to indicate they should be removed, the action required column will detail where this outcome will now be covered.	Remove, this is now covered in module 10b, outcome 4.3.
2.6 STCW (Standards of Training, Certification and Watchkeeping for Seafarers)	Amend	We are proposing to amend this outcome to be taught consistently with the same module in the Deck syllabus. Where outcomes are highlighted in red to indicate they should be removed, the action required column will	Remove, this is now covered in module 10b, outcome 4.2.

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		detail where this outcome will now be covered.	
Outcome 3: Analyse leadership and management techniques <b>used on-board</b> and <b>explain factors affecting management of personnel on-board at the operational level in the context of the marine industry</b>	Amend	This module was created at a separate time to the equivalent Deck module, this has meant that the two modules cover the same topics but are structured differently. We are proposing to amend this outcome to be taught consistently with the same module in the Deck syllabus. Where outcomes are highlighted in red to indicate they should be removed, the action required column will detail where this outcome will now be covered. Please also consult the <a href="#">fifth group of consultation templates</a> , Deck 10a, 10b and 10c to see the suggested changes to the deck management modules as these will also apply to the equivalent outcomes in this module.	Amend the title of this outcome as suggested.  Please see Deck module 10a (in the <a href="#">fifth set of consultation templates</a> ) to see suggested updates to this outcome. This is outcome 3 in the Deck module.
3.1 <b>Management styles</b> Shipboard and shoreside management structures	Amend	We are proposing to amend this outcome to be taught consistently with the same module in the Deck syllabus. Where outcomes are highlighted in red to indicate they should be removed, the action required column will detail where this outcome will now be covered.	Remove, management styles are now covered in outcome 3.2.  Include understanding of role of the engineering department within the management structure and how the department contributes to the vessel's safety culture.  Please see Deck module 10a (in the fifth set of consultation templates) to see suggested updates to this outcome.
3.2 <b>Authority and assertiveness</b> Principles of management adopted on-board ship	Amend	We are proposing to amend this outcome to be taught consistently with the same module in the Deck syllabus. Where outcomes are highlighted in red to indicate they should be removed, the action required column will	Remove, authority and assertiveness are now covered in outcomes 3.2 and 3.3.  Please see Deck module 10a (in the fifth set of consultation templates) to see suggested updates to this outcome.

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		detail where this outcome will now be covered.	Industry feedback to ensure authority and assertiveness included in the academic guidance document for this module.
3.3 <b>Situational awareness</b> Applying management techniques in the workplace	Amend	We are proposing to amend this outcome to be taught consistently with the same module in the Deck syllabus. Where outcomes are highlighted in red to indicate they should be removed, the action required column will detail where this outcome will now be covered.	Remove, situational awareness is now covered in outcomes 3.2, 3.3 and 3.4.  Please see Deck module 10a (in the fifth set of consultation templates) to see suggested updates to this outcome.  Industry feedback to ensure authority and assertiveness included in the academic guidance document for this module.
3.4 <b>Communication</b> The importance of a safety conscious, communicative environment	Amend	We are proposing to amend this outcome to be taught consistently with the same module in the Deck syllabus. Where outcomes are highlighted in red to indicate they should be removed, the action required column will detail where this outcome will now be covered.	Remove, communication is now covered in outcomes 3.2, 3.3 and 3.4.  Please see Deck module 10a (in the fifth set of consultation templates) to see suggested updates to this outcome.
3.5 <b>Effects of fatigue and stress</b> Awareness of requirements for response to bullying, harassment, Sexual Assault and Sexual Harassment (SASH)	Amend	We are proposing to amend this outcome to be taught consistently with the same module in the Deck syllabus. Where outcomes are highlighted in red to indicate they should be removed, the action required column will detail where this outcome will now be covered.	Remove, effects of fatigue are now covered in outcome 3.4  Please see Deck module 10a (in the fifth set of consultation templates) to see suggested updates to this outcome.

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3.6 Judgement and decision-making Awareness of the concept of Psychological Safety	Amend	We are proposing to amend this outcome to be taught consistently with the same module in the Deck syllabus. Where outcomes are highlighted in red to indicate they should be removed, the action required column will detail where this outcome will now be covered.	Remove, judgement and decision making are now covered in outcomes 3.1, 3.2 and 3.3.  Please see Deck module 10a (in the fifth set of consultation templates) to see suggested updates to this outcome.
3.7 Leadership in emergencies	Amend	We are proposing to amend this outcome to be taught consistently with the same module in the Deck syllabus. Where outcomes are highlighted in red to indicate they should be removed, the action required column will detail where this outcome will now be covered.	Remove, leadership in emergencies is now covered in outcomes 3.1, 3.2, 3.3 and 3.4
3.8 Cultural factors within multi-national crews	Amend	We are proposing to amend this outcome to be taught consistently with the same module in the Deck syllabus. Where outcomes are highlighted in red to indicate they should be removed, the action required column will detail where this outcome will now be covered.	Remove, cultural factors within multi national crews are now covered in outcomes 3.2, 3.3, 3.4, 3.5 and 3.6.
3.9 Situational Awareness & Decision Making	Add	These elements were originally in the Marine Engineering "Legislation and Leadership" module and industry feedback shows that they should remain to be included for both Deck and Engine.	Add this outcome to the module.

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<b>Outcome 4: Explain the systems of law and guidance operating at national and international level.</b>	Add	This outcome is structured as it is in the equivalent Deck module, this module should be taught in the same way for Engineering and Deck.	Add this outcome, please see Deck module 10a (in the <a href="#">fifth set of consultation templates</a> ) to see suggested updates to this outcome. This is outcome 1 in the Deck module
4.1 The English legal system including statute law, common law and application of international law	Add	This outcome is structured as it is in the equivalent Deck module, this module should be taught in the same way for Engineering and Deck.	Add this outcome
4.2 Criminal and civil law including examples and court procedures	Add	This outcome is structured as it is in the equivalent Deck module, this module should be taught in the same way for Engineering and Deck.	Add this outcome
4.3 Legal and non-legal regulations and compliance	Add	This outcome is structured as it is in the equivalent Deck module, this module should be taught in the same way for Engineering and Deck.	Add this outcome
4.4: Awareness of legal and practical implications of working on a foreign flagged vessel.	Add	It is essential for all seafarers work on foreign flagged vessels to be aware of this topic.	Add this outcome to the module
4.5 Awareness of progressive development of national and international standards.	Add	It is important for seafarers to have an awareness of how and why these standards are developed and implemented. This has also been suggested to be added to the Deck module.	Add this outcome to the module
4.6 Awareness of Human Rights legislation applicable on board	Add	It is essential for all seafarers to have an awareness of the Human Rights legislation that applies to them and others at sea. This has also been suggested to be added to the Deck module.	Add this outcome to the module including:  Understanding your rights as a seafarer/skills to be able to speak up when things aren't right (and sign posting - what to do/who to tell).

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			Industry suggestion to add “The role of unions and collective bargaining agreements” into this outcome.
<b>Outcome 5: Describe the legal and guidance regulations relating to different areas of operations and safe practices on-board a ship</b>	Add	This outcome is structured as it is in the equivalent Deck module, this module should be taught in the same way for Engineering and Deck.	Add this outcome, please see Deck module 10a (in the <a href="#">fifth set of consultation templates</a> ) to see suggested updates to this outcome. This is outcome 2 in the Deck module
5.1 Content and application of current maritime legislation relating to safety, environmental protection and quality	Add	This outcome is structured as it is in the equivalent Deck module, this module should be taught in the same way for Engineering and Deck.	Add this outcome Industry suggestion to ensure this includes, “Green passports, EEDI, EEXI, technical files, etc...”
5.2 Content and application of current maritime legislation relating to employment, certification and training of seafarers	Add	This outcome is structured as it is in the equivalent Deck module, this module should be taught in the same way for Engineering and Deck.	Add this outcome
5.3 The source and content of legislation and guidance concerning operational procedures and practices	Add	This outcome is structured as it is in the equivalent Deck module, this module should be taught in the same way for Engineering and Deck.	Add this outcome
5.4 Implementation of standards through port and flag state control	Add	This outcome is structured as it is in the equivalent Deck module, this module should be taught in the same way for Engineering and Deck.	Add this outcome
5.5 Record keeping and providing evidence on occurrence of incidents	Add	This outcome is structured as it is in the equivalent Deck module, this module should be taught in the same way for Engineering and Deck.	Feedback from industry to be included in academic guidance document, “Cadets must be aware of what can constitute evidence, this should also cover the implications for disposal and falsification of evidence. It should also include what cadets and junior officers should do if they



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			receive verbal or written instructions to carry out a action they beleive is unlawful.”
Proposal submitted by:	Any other outcomes for this competency, above and beyond STCW which would be needed due to use of modern technology and impact of future fuels onboard:		
	Objective	Reason Why	Action required
Cadet Training and Modernisation working Group	Outcome required to expand seafarer’s knowledge of the wider industry and how they gain transferable skills.	<p>To broaden the candidate’s understanding of the maritime industry as a whole and how their role impacts other areas.</p> <p>This will also help candidates understand potential career paths they could follow within the industry, using the technical and soft skills gained while at sea.</p>	<p>Introduce a new outcome to cover the knowledge of the wider maritime industry and the transferable skills seafarers gain.</p> <p>This could include talks from maritime industry representatives.</p>
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.	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	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	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

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	relation to what they will experience at sea.	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.	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.
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