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TRAINING AND WATCHKEEPING
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Agenda item 6

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COMPREHENSIVE REVIEW OF THE 1978 STCW CONVENTION AND CODE

Proposed draft amendments to the STCW Code to address gap no.133

Submitted by ICS

SUMMARY

Executive summary: This document provides draft amendments to the STCW Code, in order to address gap no.133.

Strategic direction, if applicable: 6

Output: 6.17

Action to be taken: Paragraph 10

Related documents: HTW 11/11 and HTW 12/6

Background

1 The Sub-Committee, at its eleventh session, agreed to the list of gaps identified in the STCW Convention and Code, as set out in annex 1 to document HTW 11/WP.4. The Sub-Committee also agreed to the commencement of phase 2 of the comprehensive review (HTW 11/11, paragraphs 6.34 and 6.35).

2 This document provides draft amendments to the STCW Code, in order to address gap no.133, in relation to the matter on consolidating ECDIS related competence requirements with those in A-II/2 to streamline training.

Discussion

3 The competencies related to ECDIS are divided between table A-II/1 (*Specification of minimum standard of competence for officers in charge of a navigational watch on ships of 500 gross tonnage or more*) and table A-II/2 (*Specification of minimum standard of competence for masters and chief mates on ships of 500 gross tonnage or more*) in the Code.

4 ICS notes that the industry practice is for the officer certified under table A-II/1 to be normally delegated with the responsibility for navigation systems and supplied with duties that would require all the competencies detailed within table A-II/2, further guided by Model Course 1.27 and supplemented by type-specific course and onboard familiarization.

5 ICS has evaluated the benefits and implications of migrating some of the ECDIS-related competences under table A-II/2 to table A-II/1 to streamline training and align with operational practices and newly adopted IMO performance standards of ECDIS. Furthermore, some of the knowledge, understanding and proficiencies (KUPs) associated with managing procurement, licensing and updating of chart data, maintenance of system configuration and backup data are better suited to type-specific training and onboard familiarization rather than including within the minimum standard of competence under tables A-II/1 and A-II/2.

6 Within the table A-II/2, the function "navigation at the management level" contains two competencies, i.e. "maintain safe navigation through the use of information from navigation equipment and systems to assist command decision-making" and "maintain the safety of navigation through the use of ECDIS and associated navigation systems to assist command decision making". ICS has proposed merging the two competencies into a single one, namely, "exercise command and decision making through the use of information from navigation equipment and systems to assist command decision making".

7 The proposed amendments, including an assessment on the cumulative impact of the amendments on seafarers and maritime education and training institutes alike, have been included in the annex to the document.

Information to support the proposed amendments

8 Taking into account the information for the submission of proposals for phase 2 of the comprehensive review of the STCW Convention and Code, as set out in document HTW 12/6 (Secretariat), information to support the proposed amendments is set out below:

Gap no*.133	
Related documents, if any:	ISWG-STCW 1/2/19
Action requested:	Migration from sections A-II/2 to A-II/1 and combining two competencies within section A-II/2
Available evidence, data, research, etc., if any, to support the proposed amendments:	Not applicable
Voluntary assessment on the possible cumulative impact (if the proposal aims at adding new training requirements, provide information on the cumulative impact on seafarers' training/certification and possible measures to address the impact):	Information on the cumulative impact: Impact on certification for regulation II/1 due to added management-level competencies and KUPs included. Impact on certification for regulation II/2 due to removal of some management-level competencies and KUPs. No impact on training hours for certification for regulations II/1 and II/2 and sections A-II/1 and A-II/2 certification. Impact on delivery of training for certification for regulations II/1 and II/2, no impact on delivery hours. No impact expected on Administration

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Gap nos. are listed in the annex to document HTW 12/6.

	Possible measures to address the cumulative impact: Subsequent amendments of the Model Course 1.27
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Proposal

9 It is proposed to amend tables A-II/1 and A-II/2, as set out in the annex.

Action requested of the Sub-Committee

10 The Sub-Committee is invited to consider the information and proposals in paragraphs 3 to 9; and the annex, and take action, as appropriate.

ANNEX*

PROPOSED DRAFT AMENDMENTS TO TABLES A-II/1 AND A-II/2 OF THE CODE

CHAPTER II

Standards regarding the master and deck department

Section A-II/1

Mandatory minimum requirements for certification of officers in charge of a navigational watch on ships of 500 gross tonnage or more

1 Table A-II/1 (Specification of minimum standard of competence for officers in charge of a navigational watch on ships of 500 gross tonnage or more) is proposed to be amended, as follows:

"Function: Navigation at the operational level

Column 1	Column 2	Column 3	Column 4
Competence	Knowledge, understanding and proficiency	Methods for demonstrating competence	Criteria for evaluating competence
...	...	...	...
Use of ECDIS to maintain the safety of navigation Note: training and assessment in the use of ECDIS is not required for those who serve exclusively on ships not fitted with ECDIS These limitations shall be reflected in the endorsements issued to the seafarer concerned	<i>Navigation using ECDIS</i> Knowledge of the capability and limitations of ECDIS operations, including: .1 a thorough understanding of Electronic Navigational Chart (ENC) data, data accuracy, data updating, presentation rules, display options and other chart data formats .2 the dangers of over-reliance .3 familiarity with the functions of ECDIS required by performance standards in force	...	...

* Tracked changes are used based on the existing provisions, which are provided in document HTW 12/6/1, i.e. "strikeout" for deleted text and "grey shading" to highlight all modifications and new insertions, including deleted text.

Column 1	Column 2	Column 3	Column 4
Competence	Knowledge, understanding and proficiency	Methods for demonstrating competence	Criteria for evaluating competence
	.4 actions on general maintenance of system configuration and backup data .5 system and information updating, including the ability to update ECDIS system version Proficiency in operation, interpretation, and analysis of information obtained from ECDIS, including: 3 confirmation of vessel position by alternative means .4 efficient use of settings to ensure conformance to operational procedures, including alarm parameters for anti-grounding, proximity to contacts and special areas, completeness of chart data and chart update status, and backup arrangements ...		
Assist command and decision making through the use of ECDIS and associated navigation systems	Management of operational procedures, system files and data, including: .1 create and maintain route plan files in accordance with established procedures .2 maintain ECDIS log-book and use track	Assessment of evidence obtained from one of the following: .1 approved in-service experience .2 approved training ship experience	Operational procedures for using ECDIS are applied, and monitored Actions taken to minimize risk to safety of navigation

Column 1	Column 2	Column 3	Column 4
Competence	Knowledge, understanding and proficiency	Methods for demonstrating competence	Criteria for evaluating competence
	history functions for inspection of system functions, alarm settings and user responses Use ECDIS playback functionality for passage review, route planning and review of system functions	.3 approved ECDIS simulator training	
...	...	...	...

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Section A-II/2

Mandatory minimum requirements for certification of masters and chief mates on ships of 500 gross tonnage or more

2 Table A-II/2 (Specification of minimum standard of competence for masters and chief mates on ships of 500 gross tonnage or more) is proposed to be amended, as follows:

"Function: Navigation at the management level

Column 1 Competence	Column 2 Knowledge, understanding and proficiency	Column 3 Methods for demonstrating competence	Column 4 Criteria for evaluating competence
...	...	...	...
Maintain safe navigation through the use of information from navigation equipment and systems to assist command decision making Note: Training and assessment in the use of ARPA is not required for those who serve exclusively on ships not fitted with ARPA. This limitation shall be reflected in the endorsement issued to the seafarer concerned	An appreciation of system errors and thorough understanding of the operational aspects of navigational systems Blind pilotage planning Evaluation of navigational information derived from all sources, including radar and ARPA, in order to make and implement command decisions for collision avoidance and for directing the safe navigation of the ship The interrelationship and optimum use of all navigational data available for conducting navigation	Examination and assessment of evidence obtained from approved ARPA simulator and one or more of the following: .1 approved in-service experience .2 approved simulator training, where appropriate .3 approved laboratory equipment training	Information obtained from navigation equipment and systems is correctly interpreted and analysed, taking into account the limitations of the equipment and prevailing circumstances and conditions Action taken to avoid a close encounter or collision with another vessel is in accordance with the International Regulations for Preventing Collisions at Sea, 1972, as amended
Maintain the safety of navigation through the use of ECDIS and associated navigation systems to assist	Management of operational procedures, system files and data, including: .1 manage procurement, licensing and updating of chart data and system software to conform to	Assessment of evidence obtained from one of the following: .1 approved in-service experience	Operational procedures for using ECDIS are established, applied, and monitored Actions taken to minimize risk to safety of navigation

Column 1 Competence	Column 2 Knowledge, understanding and proficiency	Column 3 Methods for demonstrating competence	Column 4 Criteria for evaluating competence
command decision making Note: Training and assessment in the use of ECDIS is not required for those who serve exclusively on ships not fitted with ECDIS. This limitation shall be reflected in the endorsement issued to the seafarer concerned	established procedures .2 system and information updating, including the ability to update ECDIS system version in accordance with vendor's product development .3 create and maintain system configuration and backup files .4 create and maintain log files in accordance with established procedures .5 create and maintain route plan files in accordance with established procedures .6 use ECDIS log book and track history functions for inspection of system functions, alarm settings and user responses Use ECDIS playback functionality for passage review, route planning and review of system functions	.2 approved training ship experience .3 approved ECDIS simulator training	
Exercise command and decision-making through the use of information from navigation equipment and systems to assist command	An appreciation of system errors and thorough understanding of the operational aspects of navigational systems Blind pilotage planning Evaluation of navigational information derived from all sources, including ECDIS, radar and ARPA, in order	Assessment of evidence obtained from one of the following: .1 approved in-service experience .2 approved training ship experience	Information obtained from navigation equipment and systems is correctly interpreted and analysed, taking into account the limitations of the equipment and prevailing circumstances and conditions

Column 1 Competence	Column 2 Knowledge, understanding and proficiency	Column 3 Methods for demonstrating competence	Column 4 Criteria for evaluating competence
decision-making Note: Training and assessment in the use of ARPA or ECDIS is not required for those who serve exclusively on ships not fitted with ARPA or ECDIS. This limitation shall be reflected in the endorsement issued to the seafarer concerned	to make and implement command decisions for safe navigation and collision avoidance The interrelationship and optimum use of all navigational systems and data available for conducting navigation Use ECDIS playback functionality for passage review, route planning and review of system functions	.3 approved simulator training, where appropriate .4 approved laboratory equipment training	Operational procedures for using ARPA, ECDIS and other navigation equipment are established, applied, and monitored Decisions taken to minimize risk to safety of navigation
...	...	...	...

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