CERTIFICATES OF COMPETENCY FOR ENGINEERS (YACHT)

EXAMINATIONS ADMINISTERED BY THE SCOTTISH QUALIFICATIONS AUTHORITY ON BEHALF OF THE MARITIME AND COASTGUARD AGENCY

STCW 95 CHIEF ENGINEER (REG. III/2) – "YACHT 2" STCW 95 CHIEF ENGINEER (REG. III/2) – "YACHT 3"

051-02 STATUTORY AND OPERATIONAL REQUIREMENTS

FRIDAY, 27 FEBRUARY 2009

1400 - 1600 hrs

Examination paper inserts:

Notes for the guidance of candidates:

- 1. Non-programmable calculators may be used.
- 2. All formulae used must be stated and the method of working and ALL intermediate steps must be made clear in the answer.

Materials to be supplied by examination centres:

Candidate's examination workbook

STATUTORY AND OPERATIONAL REQUIREMENTS

Attempt ALL questions

Marks for each question are shown in brackets

1.	With reference to the Code of Safe Working Practices for Merchant Seamen:					
	(a)	list THREE examples of an <i>enclosed space</i> , stating the particular hazards that may be present within EACH space;	(6)			
	(b)	list TWO instruments commonly used for testing the atmosphere of an enclosed space, stating typical <i>safe</i> readings obtained from EACH instrument.	(4)			
2.	With reference to a vessel's stability:					
	(a)	describe free surface effect;	(4)			
	(b)	describe, with the aid of sketches, the action of free surface on a vessel's stability.	(6)			
3.	(a)	Describe the operation of a typical planned maintenance system on board a large motor yacht.	(6)			
	(b)	Explain, with the use of examples, how monitoring the condition of machinery may help to avoid unnecessary overhauls.	(4)			
4.	Witl	n reference to regular classification surveys of vessels:				
	(a)	describe the circumstances under which a <i>condition of class</i> may be issued;	(6)			
	(b)	describe the normal procedure for removing a <i>condition of class</i> .	(4)			
5.	Witl	n reference to MARPOL 73/78 Annex 1:				
	(a)	list FIVE special areas;	(5)			
	(b)	state the restrictions that are in force within the special areas listed in Q5(a).	(5)			

6.		Chief Engineer Officer, detail the standing orders that should be issued regarding the essary precautions that should be taken to avoid machinery space fires.	(10)		
7.	With reference to dry docking procedures:				
	(a)	list SIX items of information that would need to be passed to the contractors prior to arrival at the dry-dock facility;	(6)		
	(b)	state why it is normal for a vessel to be trimmed by the stern when entering dry-dock.	(4)		
8.	(a)	List FOUR items of information that could be used to determine the fuel requirements for a large motor yacht.	(4)		
	(b)	A vessel has been delayed on passage by heavy weather and no longer has sufficient fuel to make its destination at the current speed. List SIX actions that could be taken to safeguard the vessel.	(6)		
9.	(a)	The Maritime and Coastguard Agency (M.C.A.) gives guidance to vessels by means of 'M' notes.			
		State the THREE different types of 'M' notes, explaining the purpose that they serve.	(6)		
	(b)	List FOUR Conventions produced by the International Maritime Organisation.	(4)		
10.	With reference to the safe use of lifting plant:				
	(a)	state FOUR safety requirements that need to be complied with before an item of lifting plant can be safely used;	(4)		

- (b) state the periodic inspection and testing requirements for an item of lifting plant; (4)
- (c) state where the results of inspections and testing are recorded. (2)