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

1400 - 1600 hrs

Examination paper inserts:
Notes for the guidance of candidates:
Non-programmable calculators may be used.
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.	Wit	h reference to a yacht	tender launching and recovery lifting appliance:		
	(a)	state FOUR safety r safely used;	equirements that need to be complied with before the rig can be	(4)	
	(b)	state the periodic ins	pection and testing requirements for the rig;	(4)	
	(c)	state where the result	ts of inspections and testing are recorded.	(2)	
2.	Wit	h reference to maritim	e administration:		
	(a)	explain what is mean	at by the term port state inspection;	(4)	
	(b)	list the circumstance	s that could instigate a non-routine port state inspection.	(6)	
3.	With reference to condition monitoring:				
	(a)	state how vibration a	nalysis can be used as part of a planned maintenance system;	(4)	
	(b)	list SIX tests that ca its suitability for furt	n be carried out on generator crankcase oil in order to determine her service.	(6)	
4.	Wit	h reference to machine	ery watchkeeping:		
	(a)	list FIVE responsibi	lities of a watchkeeper;	(5)	
	(b)	state the procedures U.M.S. conditions.	that should be followed when attending a machinery space under	(5)	
5.	(a)	A vessel has no record of past fuel consumptions. Calculate the safe bunker requirements for a forthcoming voyage, given the following data:			
		Displacement Range Speed	350 tonnes 2500 Nautical miles 20 Knots		

		Fuel coefficient	49,000	(6)
	(b)	State TWO actions that that part of the fuel is c	at could be taken if it is found, during the subsequent voyage, ontaminated.	(4)
6.	With	n reference to the classifi	ication of vessels:	
	(a)	state what is meant by	the term condition of class;	(4)
	(b)	state a typical time peri	od over which a condition of class may be imposed;	(2)
	(c)	list TWO circumstance	s under which the society would be entitled to withdraw class.	(4)
7.		n reference to the Inte	rnational MARPOL Convention 73/78 Annex V – Garbage	
	(a)	list SIX defined categor	ries of garbage;	(6)
	(b)	list FOUR garbage has book.	ndling procedures that require an entry in the garbage record	(4)
8.	With	n reference to fuels, state	the meaning of EACH of the following:	
	(a)	flash point;		(2)
	(b)	self ignition temperatur	re;	(2)
	(c)	upper explosive limit;		(2)
	(d)	lower explosive limit;		(2)
	(e)	vapour density.		(2)
9.	With	n reference to the classifi	ication of bulkheads:	
	(a)	state FOUR categories	of A-class bulkhead;	(4)
	(b)	describe the parameter bulkhead;	s that are used in order to determine the category of an A-class	(4)
	(c)	list TWO examples of t	the location of A-class bulkheads on a large motor yacht.	(2)

10.	With reference to the dry-docking of a large motor yacht:			
	(a)	state FIVE precautions that should be undertaken before the vessel enters the dock;	(5)	

(b) list FIVE routine maintenance activities that would be undertaken while the vessel is in dock . (5)