

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, 29 FEBRUARY 2008

1400 - 1600 hrs

Examination paper inserts:

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Notes for the guidance of candidates:

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| <ol style="list-style-type: none">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. |
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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 a yacht tender launching and recovery lifting appliance:
 - (a) state FOUR safety requirements that need to be complied with before the rig can be safely used; (4)
 - (b) state the periodic inspection and testing requirements for the rig; (4)
 - (c) state where the results of inspections and testing are recorded. (2)

2. With reference to maritime administration:
 - (a) explain what is meant by the term *port state inspection*; (4)
 - (b) list the circumstances that could instigate a non-routine port state inspection. (6)

3. With reference to condition monitoring:
 - (a) state how vibration analysis can be used as part of a planned maintenance system; (4)
 - (b) list SIX tests that can be carried out on generator crankcase oil in order to determine its suitability for further service. (6)

4. With reference to machinery watchkeeping:
 - (a) list FIVE responsibilities of a watchkeeper; (5)
 - (b) state the procedures that should be followed when attending a machinery space under U.M.S. conditions. (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	350 tonnes
Range	2500 Nautical miles
Speed	20 Knots

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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)