

Bilag til f.t.l. vedr. sønæring og søfartsuddannelse

The Administration may vary the requirement of sub-paragraphs (c) and (d) for engineer officers of ships powered by main propulsion machinery of less than 3 000 kW propulsion power engaged on near-coastal voyages, bearing in mind the effect on the safety of all ships which may be operating in the same waters.

3. Every candidate shall have knowledge of the operation and maintenance of main and auxiliary machinery, which shall include knowledge of relevant regulatory requirements and also knowledge of at least the following specific items:

(a) *Watchkeeping routines*

- (i) duties associated with taking over and accepting a watch;
- (ii) routine duties undertaken during a watch;
- (iii) maintenance of the machinery space log book and the significance of readings taken;
- (iv) duties associated with handing over a watch.

(b) *Main and auxiliary machinery*

- (i) assisting in the preparation of main machinery and preparation of auxiliary machinery for operation;
- (ii) operation of steam boilers, including combustion system;
- (iii) methods of checking water level in steam boilers and action necessary if water level is abnormal;
- (iv) location of common faults of machinery and plant in engine and boiler rooms and action necessary to prevent damage.

(c) *Pumping systems*

- (i) routine pumping operations;
- (ii) operation of bilge, ballast and cargo pumping systems.

(d) *Generating plant*

Preparing, starting, coupling and changing over alternators or generators.

(e) *Safety and emergency procedures*

- (i) safety precautions to be observed during a watch and immediate actions to be taken in the event of a fire or accident, with particular reference to oil systems;
- (ii) safe isolation of electrical and other types of plant and equipment required before personnel are permitted to work on such plant and equipment.

(f) *Anti-pollution procedures*

The precautions to be observed to prevent pollution of the environment by oil, cargo residue, sewage, smoke or other pollutants. The use of pollution prevention equipment, including oily water separators, sludge tank systems and sewage disposal plant.