

ΒΑΘΜΟΣ ΓΡΑΠΤΗΣ ΕΞΕΤΑΣΗΣ	ΒΑΘΜΟΣ ΠΡΟΦΟΡΙΚΗΣ ΕΞΕΤΑΣΗΣ	ΜΕΣΟΣ ΟΡΟΣ ΕΞΕΤΑΣΗΣ	ΥΠΟΓΡΑΦΗ ΚΑΘΗΓΗΤΗ

ΕΞΕΤΑΣΤΙΚΗ ΠΕΡΙΟΔΟΣ ΙΟΥΝΙΟΥ 2024
ΝΑΥΤΙΚΑ ΑΓΓΛΙΚΑ Δ' ΕΞΑΜΗΝΟΥ ΕΙΣΗΓΗΤΡΙΕΣ: ΑΘΑΝΑΣΙΑΔΟΥ / ΠΑΠΑΛΕΩΝΙΔΑ

ΟΝΟΜΑΤΕΠΩΝΥΜΟ ΣΠΟΥΔΑΣΤΗ/ΡΙΑΣ:.....ΑΓΜ:.....

Good luck!!!

ΘΕΜΑΤΑ

ALL ANSWERS SHOULD BE GIVEN ON THIS SHEET.

EXERCISE A. Find and write the term next to its definition. (1 p.)

- A systematic and documented evaluation of the effectiveness of a safety activity and its component parts.
- The certificate required for an OOW to work on the bridge, as per STCW.
- Floating ice (7/10 to 8/10 concentration) composed by floes mostly in contact.
- What is the name of ice that does not move?
- You need this form to enter an enclosed space.

EXERCISE B. True or False? Write the words True or False next to the statements. (1 p.)

- A Greek vessel is registered when it sails under the Greek flag.
- When the engines are on 5' notice, it means that they have paused for 5 minutes.
- The captain holds a *Pilotage Exemption Certificate*, so the vessel does not require a pilot.
- Consequence and likelihood are the axes of the risk-assessment matrix.
- Information about anchors is not included in the *Ship to Shore Master/Pilot Exchange* form.

EXERCISE C. Write the appropriate expression in the blanks. Choose from the word bank. (1.4 p.)

confiscated, chamber, implementation, relieve, overriding, wide berth, integrated, overrated, resumed, remitted, suspended, reimbursed, navigational, morale

- The presence of a pilot on the ship does not the master or officer in charge of the watch from their duties.
- In most ship bridges nowadays, a(n) Bridge System is used.
- When it comes to bridge management, the issue of communication cannot be considered as
- Bridge Procedures Guide is published by the Internationalof Shipping.
- Pilot service isdue to restricted visibility. Service will bewhen conditions improve.
- As per ISM, the Master has the authority to make decisions with respect to safety and pollution prevention.
- Mine clearing operation in vicinity of your position. requested.
- The ISM Code provides guidelines for the proper of safety and pollution prevention management.
- After the occupational accident, which resulted in the Bosun's injury, the crew is suffering from low
- Wages for seafarers are to their bank account.
- Your expenses will be by the company. All you need to do is keep the receipts.
- The package contained liquid and was at the airport.

EXERCISE D. Match the synonyms/definitions. Write the correct expression in the blanks. There are extra words. (1.2 p.)

goal, deployment, rupture, dent, countermand, magnitude, liable, proficient, accustomed, reluctance

size, importance	cancel the original order and give a new one	a slight hollow in a hard even surface made by pressure	objective
skilled in doing/ using something	bringing into effective action	familiar with	unwillingness to do something

EXERCISE E. Match to make collocations. Write the correct expression in the blanks. (2.1 p.)

plan, factor, pilotage, effect, advantage, ensued, culture, causes, human error, regulations, permit, account, time, lookout, orders

contributory	detrimental	applicable
competitive	no blame	ample
a short discussion	mitigate	execution of
safe conduct of	root	take into
contingency	when circumstances	maintain proper

EXERCISE F. Write the derivative noun of the following verbs. (1 p.)

Verb	Noun
deteriorate	
adjust	
consider	
abrade	
recur	
detect	
enforce	
dismiss	
elect	
commence	

EXERCISE G. Reading Comprehension. Read the text and do the exercises that follow. (2.3 p.)

(“The Hazards of Ice”, The Swedish Club, Letter 2-2003, abridged)

Introduction

The Swedish P&I Club annually deals with a large number of ice-related claims. The Club’s experience is that masters and shipowners on many occasions seem to be surprised by the force, strength and toughness that ice constitutes and the severe damage it might inflict on a vessel. In the past winter, among other areas, the Gulf of Finland and the approach to St. Petersburg witnessed a lot of incidents where ships were not entirely fit for the purpose, masters not sufficiently trained for the task and shipowners did not seem to take the issue of ice seriously enough. The main reasons are lack of knowledge and experience of ice, no doubt coupled with commercial reasons and considerations. This article highlights some of the factors and dangers that seafarers are exposed to when navigating through ice.

Navigation

Navigation through ice-infested waters is always a difficult and delicate task. Poor visibility caused by fog and/or snowfall is often related to icy waters. Sight must be given very careful consideration, for false horizons are frequently observed in ice. One important aid is the radar, which has been found to be a most valuable tool for safe navigation

when used judiciously. It is necessary to optimise the radar settings in order to be able to detect icebergs, or ice walls in ice-covered waters. Other valuable aids are the various electronic positioning fixing systems, such as the GPS. Good searchlights should also always be available during the hours of darkness.

Beset

The vessel's speed in ice requires careful consideration by the master. If a vessel goes too slowly, she risks being beset, if too fast she risks damage from collision with floes. Experience has shown that vessels that are not ice-strengthened, and that do not maintain a speed of about 12 knots in open water, often become firmly beset even in light ice conditions. Furthermore, ships operating in ice should be ballasted and trimmed so that the propeller is completely submerged and as deep as possible, but without excessive stern trim which reduces manoeuvrability. When operating in ice, the first principle for making a successful passage is to maintain freedom of manoeuvre. Once a ship becomes trapped, she will go wherever the ice goes. In ice concentration, three basic ship handling rules apply, namely, keep moving, even if very slowly, try to work with the ice movement and not against it, and, do not forget that excessive speed leads to ice damage. Every opportunity should be taken to use leads through ice. When not accompanied by an icebreaker, it is unwise to follow a shore lead with an onshore wind blowing, as moving ice may force a vessel aground. The most serious danger in connection with ice is from the pressure of the ice, which may crush the hull and tear off the ship's bottom. A ship beset in ice can drift with the ice against shoals and the shore. Every precaution should therefore be taken to avoid this situation. Anchoring should as a matter of course be avoided in a heavy concentration of ice. If the ice is moving, its tremendous force may break the cable. If several vessels are to be assisted at the same time, a convoy is to be formed.

Ice accumulation

Ice accumulation on ships is another serious danger of water in its frozen form. This can be a threat to the ship, cargo and crew when it accumulates on the hull and superstructure of a ship. Ice accumulation may occur from fog, freezing drizzle, rain or wet snow, or spray or seawater breaking over the ship (when the air temperature is below the freezing point of seawater (-2°C)). The ice on deck and on the rigging is liable to endanger those on deck by falling down or simply because of the plain slipperiness of it. Ice may also damage radio aerials and radar and satellite equipment. This is a subsequent danger to the further advance of the vessel. However, by far the most dangerous situations are when a ship encounters heavy weather and rough sea, with heavy seas breaking over the vessel, while the temperature is running low. This can alter a ship's GM (the metacentric height, which is a measure of ship's stability) to critical points. In extreme cases this has led to the capsizing of vessels. The dangerous conditions are those in which strong winds are experienced, above force 6, and the air temperature falls below -2°C.

(a) Match the two halves to make sentences based on the article. Write the correct number in the blanks. (1 p.)

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| 1. Trim by the stern | can underestimate the potential damage of ice. |
| 2. Masters and shipowners | can constrain ship movements. |
| 3. Overwhelming speed | can break the anchor cable. |
| 4. The strength of ice when it moves | can be the most dangerous situation. |
| 5. The combination of rough sea and freezing temperature | can lead to damage incurred by ice. |

(b) Answer the following questions according to the article.

(1.3 p.)

1. What is the *false horizon* effect/phenomenon and how can it be avoided?

2. How can drift ice cause vessel grounding?