



Purpose:

The e-learning module is designed for theoretical training of seafarers in accordance with Section A-VI/1 of the STCW Code in the part concerning fire prevention and fire-fighting.

What is an e-learning module?

E-learning module is the electronic textbook on one or more sections. Theoretical materials can be accompanied by drawings, diagrams, photos, animations and videos. There is a test for assessment of knowledge gained at the end of each section.

Contents:

- Minimization of the risk of fire
- Maintain a state of readiness to respond to emergency situations involving fires
- Fire fighting and fire extinguishing

Target groups

Deck - Management
Deck - Operational
Deck - Support

Engine - Management
Engine - Operational
Engine - Support

Ship types

Generic

Regulations

- Table A-VI/1-2 STCW Code
- IMO Model course 1.20
"Fire prevention and fire fighting"





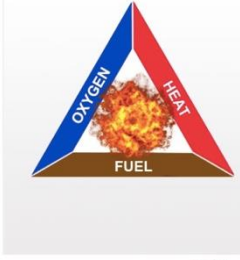
FIRE PREVENTION AND FIRE-FIGHTING
Version: 01/2023

Section 1: Minimization of the risk of fire

CONCEPT AND APPLICATION OF THE FIRE TRIANGLE IN FIRE FIGHTING AND FOR PREVENTION OF IGNITION

Consideration of the 'fire triangle' clearly shows two important factors needed to prevent and extinguish fires:

1. A fire cannot start if one of the sides of the triangle is missing.
2. If one of the sides of the triangle is excluded, then the fire will stop



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Section 1: Minimization of the risk of fire

FIRE HAZARDS

There are significant fire hazards in the galley.

Flammable liquids (cooking oils, hot fats) in combination with hot surfaces of ovens, trays, chimneys present an increased fire hazard.

In addition to this, one should take into account the considerable amount of electrical equipment available in the galley. Damage to electrical connections may cause a fire.



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Section 2: Maintain a state of readiness to respond to emergency situations involving fires

ORGANIZATION OF SHIPBOARD FIRE FIGHTING

Fire reconnaissance is carried out by the personnel of the emergency rescue team, in case of fire out outside the engine rooms. In case of fire in the engine room, reconnaissance is carried out by the personnel of the emergency rescue team (group) of the engine room.

According to the results of fire reconnaissance, the number of people injured and cut off by fire and the ways of their evacuation are separately estimated. Emergency escape routes for people in case of fire are determined in the documents and information for the Ship's survivability guide.



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Section 2: Maintain a state of readiness to respond to emergency situations involving fires

CLASSIFICATION OF FIRES AND APPLICABLE EXTINGUISHING AGENTS

2.11. CLASSIFICATION OF FIRES AND APPROPRIATE EXTINGUISHING AGENTS

Selection of fire extinguishing agent allows to minimize the following:

- time to extinguish the fire;
- damage, caused to the ship;
- danger to the life and health of the crew.



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Section 3: Fire fighting and fire extinguishing


USE OF FIRE-FIGHTING APPLIANCES AND EQUIPMENT

The heat-resistant suit is made of laminated fiberglass with heat-reflecting pads. A breathing apparatus is worn under the suit.

A properly fitted suit creates an airtight closure and protects a person for a short time from direct contact with fire at temperatures up to 810 °C. However, in a heat-resistant suit, one should not linger in the flame, since it also does not provide absolute protection.

The breathing apparatus, which is part of the fire-fighter's outfit, is autonomous and operates from compressed air cylinders.

fire-fighter's outfit must be ready for use and stored in an easily accessible place, which is marked with a special sign indicating the place where fire protection equipment is stored. If there is more than one set of fire-fighter's outfit on board, they should be stored in separate locations.



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Test tasks

Question text:

Which Figure shows the fire hose sign?

Choose the correct answer!

Figure 3

Figure 1

Figure 2

Attempt: 1

COMMENT

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