



Simulator

FFLBS-B FREE FALL LIFEBOAT SIMULATOR (WITH REAL CONTROL ORGANS, CLASS B) (version 1.0)



Purpose

The Free-Fall Lifeboat Simulator is designed for the training of specialists in lifeboats in accordance with the requirements and recommendations of:

- Regulation VI/2 of the STCW Convention, Section A-VI/2 "Mandatory minimum requirements for the certification of specialists in lifeboats, liferafts, rescue boats and fast rescue boats," Tables A-VI/2-1 and A-VI/2-2 of the STCW Code;
- IMO Model Course 1.23 "Proficiency in Survival Craft and Rescue Boats (other than Fast Rescue Boats)" (2024 Edition).

The simulator can be used for training lifeboat coxswains operating on mobile offshore units in accordance with the OPITO standard "Offshore Lifeboat Coxswain Training."

FFLBS-B simulator belongs to class B in the classification given in the model course and based on the DNV standard - DNV-ST-0033.

The simulator allows for the practice of skills in:

- launching the lifeboat, including in significant wave conditions;
- clearing the ship;
- starting and operating the engine;
- maneuvering the lifeboat in prevailing and harsh weather and sea conditions, including in storms and at night;
- steering the lifeboat by compass;
- approaching the ship;
- embarking the lifeboat.

Simulator structure

The simulator includes:

- Real controls and a release mechanism;
- A visualization system;
- Computer equipment;
- Software.

At the Customer's option, it can be supplied with a mock-up of the lifeboat cabin and a ladder, or the Customer's existing real lifeboat can be retrofitted.

The simulator could be equipped with an imitation of the ship's navigation bridge from which the boat is launched and recovered.

Target group

Deck - Management
Deck - Operational
Deck - Support

Engine – Management
Engine – Operational

Ship types

All types



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Software

The simulator software consists of:

- Instructor WorkPlace (IWP);
- Student WorkPlace (SWP);
- A module for processing commands from the lifeboat controls.

Functions of the Instructor Workplace:

- Selection of the navigation area;
- Configuration of the surrounding environment (waves, precipitation, visibility limitations, currents, wind);
- Setting the time of day;
- Placement of target objects in the area, with specified movement trajectories and speeds;
- Introduction of emergency situations;
- Setting up virtual observation cameras for the navigation area.

Functions of the Student Workplace:

Lifeboat control, including:

- Starting and operating the engine;
- Using the main steering device;
- Clearing the ship, controlling and maneuvering the lifeboat in various conditions, including storm, rough weather, and at night;
- Steering the lifeboat by compass;
- Approaching the ship;
- Intentional beaching of the lifeboat;
- Launching the lifeboat using real release mechanisms;
- Using a simulated binocular;
- Using a simulated searchlight;
- Visual display of target objects on the water surface and the coastline.
- 3D sound simulation of the marine environment.



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Navigation Areas

The simulator implements:

- An open sea area with a vessel from which the lifeboat is launched;
- A sea area with a coastline.

Methodical guidelines for using the simulator

The simulator is supplied in the set with the guidelines for the use of the simulator, developed in accordance with the technical description and operating instructions for the fire-retardant free fall lifeboat.

Additional options

The simulator can be supplied with e-learning modules for theoretical education, multimedia training software for practice, and knowledge assessment software for testing, which are combined into training package for seafarers who are designated to take charge of lifeboats.

Regulations

STCW Convention

- Regulation VI/2

STCW Code

- Section A-VI/1
- Section A-VI/2
- Section B-I/14 "Guidance regarding the responsibilities of companies and recommended responsibilities of masters and crew members"
- Table A-VI/2-1 "Specification of the minimum standard of competence for specialists in lifeboats, liferafts and rescue boats other than fast rescue boats"
- Table A-VI/1-1 "Specification of minimum standard of competence in personal survival techniques"

IMO Model Course 1.23 "Proficiency in Survival Craft and Rescue Boats (other than Fast Rescue Boats)" (2024 Edition).

OPITO standard "Offshore Lifeboat Coxswain Training."



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Example of a lifeboat supplied by the Customer



Instructor WorkPlace