



Simulator

GMDSS

Description:

This simulator is designed for the training of GMDSS radio operators.



Purpose:

The Global Maritime Distress and Safety System (GMDSS) simulator creates a realistic environment for training GMDSS operators and radio specialists. It is intended for use in simulator-based training for students, as well as for the assessment of competence and demonstration of professional skills in accordance with the requirements of STCW Code section A-IV/2 and the ITU Radio Regulations, which are conducted using simulators.

The GMDSS simulator can be used to train specialists obtaining General Operator GMDSS Certificates and Restricted Operator GMDSS Certificates.

The simulator package includes:

- 1 Instructor WorkPlace,
- From 1 to 32 Student Workplaces,
- Software with a set of training exercises, a system for monitoring and recording operator actions,
- A set of controllers, electronic modules, and network equipment ensuring the simulator's operation,
- Operational documentation.

Target group

GMDSS Operators

Ship types

All types



The software simulates the behaviour of the following devices:

- VHF RADIO STATION WITH DSC VHF
- VHF radio and DSC
- MF/HF RADIO STATION WITH DSC MF/HF
- MF/HF radio and DSC
- MF/HF Radiotelex
- MF/HF NBDP Terminal (TELEX)
- INMARSAT-C SES, EGC RX with LRIT and SSAS
- Inmarsat-C
- INMARSAT FleetBroadband
- IRIDIUM SES LT-3100S GMDSS Satellite Communication System
- INMARSAT-B SHIP EARTH STATION (optional)
- INMARSAT-FLEET 77 SHIP EARTH STATION (optional)
- TWO BAND RECEIVER NAVTEX NX-700A/B
- 2182 kHz Watch Receiver
- COSPAS-SARSAT EPIRB
- AIS COSPAS-SARSAT
- SART
- AIS SART
- AIS Transponder
- Two-way VHF radiostation GMDSS and Maritime VHF Radio
- VHF radio for two-way communication between vessel and aircraft
- Fast Find 220 PLB
- PLB AIS
- GMDSS Alarm Panel Radio direction finder
- Power Switchboard
- Battery Charger
- Virtual Printer
- ONBOARD COMPUTER with e-mail
- PPI of Radar/ ARPA Module
- GPS Receiver

Instructor WorkPlace (IWP)

The Instructor WorkPlace software allows for the training of Students in the use of GMDSS equipment, as well as for monitoring knowledge and acquired skills.

The instructor has the ability to modify the equipment configuration of Student WorkPlaces, change radio communication conditions, introduce signal interference, monitor Student radio communications, and much more.



The Instructor WorkPlace includes:

- Instructor's display;
- Radiotelephone handset with PTT;
- Software-based shore station simulator;
- Printer.

Student WorkPlace (SWP)

The Student WorkPlace is implemented as a software shell performing the functions of radio equipment. Received and transmitted calls, as well as service information, are output to a virtual printer. The SWP is equipped with control panels simulating real GMDSS radio equipment. All simulators correspond to equipment widely used in the merchant marine and designed according to the requirements for shipborne radio installations set out in IMO resolutions concerning GMDSS.

SWP are available in a standard configuration (with a hardware console, built-in panels simulating radio equipment) and a compact version (PC-based).

Regulations:

STCW Convention:

- Chapter IV

STCW Code

- Section A-I/12
- Section B-I/12
- Chapter IV

IMO Model Course 1.25 "GMDSS General Operator's Certificate"

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