



**DEMOCRATIC SOCIALIST REPUBLIC OF SRI LANKA MERCHANT SHIPPING SECRETARIAT MINISTRY OF
PORTS AND SHIPPING**

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Teaching Facilities & Equipment - GMDSS

Real Equipment	Equipment Simulated in Transas TGS 4100 Simulator (Software Program)
Two fully operational MF/HF transmitter/receiver set for radiotelephony and DSC	One fully operational MF/HF transmitter/receiver set for radiotelephony, NBDP and DSC (Two student simulator stations are available to conduct local communications between the DSC controllers)
One dummy satellite EPIRB (406 MHz) with hydrostatic release mechanism;*	One dummy satellite EPIRB (406 MHz) with hydrostatic release mechanism;*
One dummy SART;	One dummy SART;
	One EGC receiver facility (An Inmarsat-C covers that requirement on board);* (Two student simulator stations are available to conduct local communications between the INMARSAT SES units)
	One dummy Distress alarm panel for passenger ships, connected to the VHF DSC, MF DSC and Inmarsat - C.
One NAVTEX receiver;	One NAVTEX receiver;* (Two student simulator stations are available)
Two fully operational VHF transmitter/receivers for radiotelephony and DSC, incorporating a DSC watch receiver for channel 70 (It is possible to go on the air with one of them)	One fully operational VHF transmitter/receivers for radiotelephony and DSC, incorporating a DSC watch receiver for channel 70 (It is possible to go on the air with one of them) (Two student simulator stations are available to conduct local communications between Them)
One two-way portable VHF radiotelephone with charging arrangement;	One two-way portable VHF radiotelephone "without" charging arrangement;
	One dummy, portable two-way on-scene communication for 121,5 and 123,1 MHz.

Teaching Facilities & Equipment (Contd.)

Real Equipment	Equipment Simulated in Transas TGS 4100 Simulator
	One training network with personal computers, with realistic simulation equipment, should be provided for each trainee, capable of running relevant programmes for simulating the operation of Inmarsat GMDSS satellite systems, DSC and NBDP, NAVTEX, VHF DSC, MF/HF DSC, as appropriate
One battery inverter power supply, connected as the reserve source of energy (not necessarily located in the working area) or a regular reserve source of energy (radio batteries) connected to the charging arrangement (re.: COMSAR/Circ.16, 4 March 1998)	One battery inverter power supply, connected as the reserve source of energy (not necessarily located in the working area) or a regular reserve source of energy (radio batteries) connected to the charging arrangement (re.: COMSAR/Circ.16, 4 March 1998) ; and
Sign and marking in accordance with the requirements of the administrations for GMDSS ship stations	Sign and marking in accordance with the requirements of the administrations for GMDSS ship stations
	GPS Receiver GP – 90 (Furuno)

*Two sets of equipment connected to back to back are available with the simulator.

Note : GMDSS training equipment (real equipment) should be installed in such a way that it corresponds with the requirements of installation on board ships fitted with GMDSS equipment.

Note : GMDSS training simulators have to provide all communication requirements. This means that the simulator should simulate the features of the designated simulated equipment in distress, urgency, safety and routine communications. It shall be possible to simulate the contact to ship stations as well as to all kinds of coast stations in network of computers.

Note : Throughout the course, safe working practices are maintained.

Additional Equipment

- Radio Communication Equipment set up For Radio for R/T on scene communication exercise. (Internal communication only. No real transmission)
- Lead Acid Batteries, Battery Charger, DC On/Off switch and Voltage/Current indicating meters.
- Multimeter to check current/voltage/resistance. (Including testing of fuses).
- Hydrometer to check specific gravity of lead/acid batteries.
- Safety Gloves, Safety Goggles and CO₂ Fire Extinguisher.

No.	Name of Publication
01	Global Maritime Distress and Safety System - General Operator' Certificates (GMDSS – GOC) Course Compendium – IMO Publication
02	IMO GMDSS Manual latest edition.
03	The International Aeronautical and Maritime Search and Rescue Manual (IAMSAR).
04	International Code of Signals.
05	Master Plan of the shore – based facilities for the GMDSS.
06	Standards of Training, Certification, and Watch keeping – (STCW Document)
07	International Convention for the Safety of Life at Sea 1974 as amended (SOLAS).
08	ITU Manual for use by Maritime Mobile and Maritime Mobile Satellite Service.
09	ITU List of Coast Stations and Special Service Stations (List IV)
10	ITU List of Ship Stations and Maritime Mobile Service Identity Assignments. (List – V)
11	Admiralty List of Radio Signals (Volume 1, 5, 6).
12	GMDSS Radio Log Book
13	Operator's Manuals of GMDSS Radio Equipment and Simulated Equipment.