



REPUBLIC OF THE PHILIPPINES  
DEPARTMENT OF TRANSPORTATION



**MARITIME INDUSTRY AUTHORITY  
ANNEX 2**

**EVALUATION INSTRUMENTS FOR FULL MISSION BRIDGE SIMULATOR**

**EVALUATION CHECKLIST FOR THE  
ACCREDITATION OF PRACTICAL  
ASSESSMENT CENTER**

Name of Company or Corporation:	Contact Number:	Company Address:
Date & Time Commenced of Inspection:	Date & Time Completed Inspection:	
Company Email :	MARINA Control Number:	
Date of Pre-Inspection	Date of Final Inspection	

Item No.	Simulator Performance Standards	Applicant Self Evaluation (√)	Evaluator Verification (√)	Remarks
1. EQUIPMENTS				
.1	Instructor's Console			
.2	Number of Candidates' Work Stations= _____			
.3	Simulators shall be fully editable by the AC's personnel			
.4	Dongle / Machine License			
.5	Other relevant simulator documents / licenses (e.g. Proof of Ownership under the name of AC; Class approval, Simulator configuration, etc.)			
2. PHYSICAL REALISM				
.1	The radio communication station shall simulate a typical station found on merchant ships in accordance with Module B in the Directive and as applicable SOLAS 74 as amended, IMO Res. A.			



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	570 (14), IMO Res. A. 694 (17), IMO Res. A. 808 (19), IMO MSC/Circ. 862.			
.2	Each piece of equipment is to be arranged in a ship-like manner. For Full-Mission Bridge (Virtual arrangement is acceptable for dedicated GMDSS simulator and Mini-Station Bridge)			
.3	It shall be possible for the learner to move "own ship" in the navigation area (for FMB).			
	The radio communication station shall at least consist of the following main components where all necessary sub-systems are to be included:			
.4	VHF radiotelephone with DSC (digital selective call).			
.5	At least one handheld VHF set.			
.6	Satellite EPIRB (emergency position-indicating radio beacon).			
.7	NAVTEX receiver.			
.8	SART (Search and Rescue Transponder).			
.9	Radar for receiving SART signals.			
.10	MF/HF radiotelephone with DSC (Digital Selective Call), NBDP (Narrow Band Direct Printing) and Radio Telex.			
.11	Inmarsat system (Telephone, telex, including a distress priority telephone and telex service to/from RCC) or equivalent.			
.12	Inmarsat C ship earth station (Store-and-forward data and telex messaging, with EGC (Enhanced Group Call), reception of MSI (Maritime Safety			



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	Information), the capability for sending preformatted distress messages to a RCC and the SafetyNET service).			
<b>3. BEHAVIORAL REALISM</b>				
.1	When simulating real equipment the behaviour of such simulated equipment should behave as identical as possible as the original. Critical functionality shall be documented.			
.2	The simulated equipment should resemble especially important radio-technical variables, such as but not limited to: <ul style="list-style-type: none"><li>— VHF line of sight communication</li><li>— VHF/MF/HF power limitation</li><li>— MF ground wave propagation</li><li>— HF atmospheric propagation and reflection</li><li>— Inmarsat Link Test and log on/off various satellites</li><li>— EGC test</li><li>— EPIRB/SART/Port VHF/Navtex functions.</li></ul>			
.3	The simulated equipment should resemble especially important radio-technical variables, such as but not limited to: <ul style="list-style-type: none"><li>— distance limitations</li><li>— VHF line of sight communication</li><li>— VHF wattage limitation.</li></ul>			
.4	It shall be possible to use different communication systems at the same time.			
<b>4. OPERATING ENVIRONMENT</b>				
.1	The communication station shall be able to receive and transmit messages to the "real world" as virtualised by the simulator (instructor or other learner).			
.2	The instructor shall be able to position the learner in "real" position all around the world.			
.3	The instructor shall be able to introduce variable background noise, relevant to the location and time of day, for each frequency			



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used.

**X- FINDINGS: Please use Annex 3**

**EVALUATED BY:**

\_\_\_\_\_  
*Signature Over Printed Name*  
Team Leader

**Team Members:**

\_\_\_\_\_  
(Signature Over Printed Name)

\_\_\_\_\_  
(Signature Over Printed Name)

\_\_\_\_\_  
(Signature Over Printed Name)

**CONFORME:**

\_\_\_\_\_  
Signature Over Printed Name  
Company Representative