

**Exercise Plan Template
(Instructor's Copy)**

Course Title	Management Level Course for Marine Deck Officers																					
Exercise No.	A6.5																					
Exercise Title	Apply the search and rescue operation coordination procedure of IAMSAR																					
Duration	2.5 hours 0.25 hour for briefing 2.0 hours for practical exercise 0.25 hour for debriefing																					
Function	Function 1: Navigation at the Management Level																					
Competence	Coordinate search and rescue operations																					
Knowledge, Understanding and proficiency	A thorough knowledge of and ability to apply the procedures contained in the International Aeronautical and Maritime Search and Rescue (IAMSAR) Manual																					
Intended Learning Outcome/s	At the end of the exercises, the trainee should be able to apply the search and rescue operation coordination procedure of IAMSAR in a given scenario.																					
Training Equipment/Materials	<ul style="list-style-type: none"> • Full Mission Bridge Simulator and Mini Bridge Simulator Workstations • Two-Way Handheld Radio 																					
Scenario Description	Vessel underway bound for Manila when a distress call - MAYDAY at 06:02 UTC on VHF channel 16 was received, a Man Overboard incident in a given position Latitude 14° 18.81'N and Longitude 120° 25.39'E. After establishing contact to vessel in distress, own ship immediately proceeded to the area and render assistance. Upon arrival to the given position the MOB was not sighted as per the distress message considering probable error of position occurred. The Master decided to execute the Expanding Square Search Pattern.																					
Initial Condition	<p>Ship Particulars</p> <p>Ship Name: MV ALTITUDE III Ship Model: Oil Tanker Condition: Ballast LOA: 336.0 m Breadth: 58.0 m Draft: 5.5 m Max Speed: 17.2 knots Propeller: Right handed, Fixed pitch propeller, Single Screw</p> <table border="1" style="width: 100%;"> <tr> <td rowspan="2">Initial Position</td> <td>Lat.:</td> <td>14 – 16.1938N</td> </tr> <tr> <td>Long.:</td> <td>120 – 25.5037E</td> </tr> <tr> <td colspan="2">Initial Heading:</td> <td>000°</td> </tr> <tr> <td colspan="2">Speed:</td> <td>10.0 knots</td> </tr> <tr> <td colspan="2">Steering Mode:</td> <td>Manual Mode</td> </tr> <tr> <td colspan="2">Time:</td> <td>1400H</td> </tr> <tr> <td colspan="2">Current:</td> <td>295°/1.0knots</td> </tr> </table>		Initial Position	Lat.:	14 – 16.1938N	Long.:	120 – 25.5037E	Initial Heading:		000°	Speed:		10.0 knots	Steering Mode:		Manual Mode	Time:		1400H	Current:		295°/1.0knots
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	Wind:	140°/3(Bf)	
	Sea State:	0.1 - 0.5m	
	Tide:	0	
	Visibility:	>10nm	
Instructor's Action	<p>The instructor should follow these steps for the entire duration of the exercise to ensure the effective and safe conduct of the practical exercise:</p> <ul style="list-style-type: none"> • Coordinate with staff to ensure that facilities are safe and the equipment are fully operational; • Before the start of the exercise, ensure that the facilities and equipment are ready to be used; • Group the class into groups with a maximum of four (4) members each; • Conduct briefing; • Start the practical exercise; • Monitor the trainees' performance using the checklist (Practical Exercise Record Sheet); • Stop the exercise if there is any deviation from the required procedure, then explain the reason and give further instruction; and • Conduct debriefing. 		
Exercise Procedure			
Briefing	<p>Before the start of the exercise, ensure that the following are fully understood and done by the trainees:</p> <ol style="list-style-type: none"> .1 intended learning outcomes and performance criteria for the exercise; .2 double check all bridge equipment; .3 need to treat the activity as it is a real-life situation; and .4 seek clarifications or any concerns regarding the instructions given prior commencing the simulation exercise. 		
Trainee's Action	<ul style="list-style-type: none"> • Reporting and coordinating readiness for assistance • Apply search and rescue operation using expanding square pattern • Terminating search and rescue operations 		
Debriefing	<p>Start the debriefing by stating the purpose of the debriefing and encourage peer review and discussions then:</p> <ol style="list-style-type: none"> .1 ask the trainees how they went about the exercise and what challenges they encountered; .2 state whether the intended learning outcomes were achieved; .3 provide the result of the evaluation using the checklist provided based on the criteria for assessing the competence; .4 discuss the positive accomplishment as well as the points for improvements, if any; and .5 always be diplomatic in any objection of the trainee and take note of the comment regarding the exercise. 		
Monitoring Checklist			
<i>Trainees should be required to repeat the execution if any of the performance criteria is not done or not acceptable</i>			
Performance Criteria	Done	Not Done	Observations / Comments

1. Reporting and coordinating readiness for assistance			
1.1 Master acknowledge distress alert MAYDAY			
1.2 Master order OOW to plot the MOB position and conduct RADAR watch			
1.3 Master shall determine the distress signal from own ship's heading			
1.4 Master give helm orders to steer the ship towards MOB position			
1.5 Master contact other vessels in the vicinity of distress			
1.6 Master transmit MAYDAY-RELAY to radio coast station MRCC <ul style="list-style-type: none"> - Vessel's name - Call sign - Vessel's position - Nature of distress - Position of distress the MOB - Time - Vessel's ETA to MOB position 			
1.7 Master assign extra lookout and report if MOB sighted			
2. Conducting search			
2.1 Own ship arrived first in the vicinity of MOB. Master inform MRCC and other vessels in the vicinity that own ship will act as On-scene Coordinator.			
2.2 Master inform MRCC and other Search and Rescue (SAR) facilities that own ship will carry out search pattern.			
2.3 Master carry out expanding square search pattern			
2.4 Master inform the crew / lookouts / engine room, rescue team to standby and wait for further instructions.			
2.5 Master order the lookout to locate MOB on the horizon and report status every 5 minutes.			
3. Rescue activities			
3.1 Master inform SAR helicopter that the MOB is located			

3.2 Master inform coast radio station and all SAR facility that the MOB already retrieved by SAR helicopter			
4. Terminating search and rescue operations			
4.1 Master inform SAR facility and MRCC that the search and rescue is completed at ____LT/UTC			
4.2 Master inform the crew, lookouts, and engine room to resume on-board routine			
4.3 Master inform the coast radio station and searching vessels that the search and rescue operation were completed and terminated			
4.4 Master inform SAR facility and MRCC that own ship to resume intended voyage			

Note: This sample practical Exercise Sheet was used during the conduct of pilot testing, MTI may enhance this taking into account the Resources they have.