

8 - Search

Competence (Skills)	Knowledge, Understanding and Proficiency	Level Required		Methods for Demonstrating Competence (Qualification Standard)	Criteria for Evaluating Competence (Performance Standard)
		Coxswain Captain	Crew		
Developing Search Plans		RQ	OPT	<ul style="list-style-type: none"> Understand and execute Search Plan. 	
Search Planning	<p>Plan an appropriate search using relevant mission information, piloting aids, and coordination from other agencies.</p> <p>Determine search areas</p>	RQ	OPT	<ul style="list-style-type: none"> Understand all components of search planning, the limitations of the vessel, and possess knowledge of the local area. Have a working knowledge of the other resources available to assist. Define Last Known Position Define Datum Define Leeway Define Total Water Current Define Total Drift Solve Total Water Current using a Datum Marker Buoy Solve a search area for a coastal incident with a drift of less than 6 hours 	Have an awareness of the importance of positive expectations, big picture, and the human factors associated with SAR operations.
Search Patterns	<ul style="list-style-type: none"> Coordinate plan and conduct an elective open water search with the vessel using 	RQ	OPT	<ul style="list-style-type: none"> Draw the listed search patterns and state their use during a 	Keep the vessel on a steady track while monitoring the effectiveness

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	<p>any of the following patterns: Expanding square, sector search, barrier search, parallel track, creeping line patterns.</p> <ul style="list-style-type: none"> Brief the crew, assign jobs such as: timer, helm, pattern watch and spotters. Direct the vessel through smooth course changes and maintain active searching through all sectors. 			<p>search.</p> <ul style="list-style-type: none"> List the track spacing leg lengths and courses. List the steps to conducting a vessel through an open water search pattern. 	<p>of the spoilers and the vessel track. A thorough coverage of the assigned area must be ensured; any uncertainties will be relayed to JRCC accurately and honestly.</p>
Search Execution	Set vessel up for any search pattern, briefing the crew and assigning search tasks. Maintain control of the crew, vessel, and mission. Adapt to changes conditions, current search information, updated information of crew effectiveness, and oversee and coordinate all search communications.	RQ	OPT	<ul style="list-style-type: none"> Understand all aspects of search execution. Understand the techniques to maintain search effectiveness, including human factors and external factors. Describe the set-up and conduct of maritime search patterns Organize and assign roles for search activities on own vessel Perform search patterns Evaluate a search plan taking into account operational and environmental factors Evaluate the performance of a search and rescue unit in carrying 	Ensure crews maintain focus throughout search execution.

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				<p>out its tasking and covering its designated search area</p> <ul style="list-style-type: none"> SITREP's to the Maritime SAR Coordinator at the JRCC/MRSCQ on the search area covered, search effectiveness and estimated time of completion, along with operational and environmental factors of the search. 	
Night Search	<ul style="list-style-type: none"> The vessel will be prepared, equipment set up and the crew will be briefed for night operations prior to a night departure. Roles will be monitored and the effectiveness of the search will be reviewed. Demonstrate techniques such as spotlight staying out of driver's eyes, scanning the sector, and proper use of night vision goggles. Crewmembers shall operate the NVG's according to manufacturer guidelines to spot and report an object in the water. Crewmembers shall operate a search light 	RQ	RQ	<ul style="list-style-type: none"> Crewmembers shall understand the difference between central and peripheral night vision. Crewmembers shall be familiar with the operation of NVGs on board. List the steps to setting up the vessel for night search operations. List the equipment and supplies that would be prepared and tested. Brief the spotters on spotting techniques and reporting methods. 	<ul style="list-style-type: none"> Knowledge of the NVG and searchlights can be evaluated through competent performance of the skill. This competency may be evaluated during night operations in non-extreme weather conditions or during low priority incidents-missions. Encourage and maintain the spotters' effectiveness by rotating them through the positions, keeping them nourished and hydrated.

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	so as to avoid compromising the crew's night vision.				<ul style="list-style-type: none"> Review search techniques with the crew and encourage their diligence.
Vessel Operations for Search Patterns	Each crewmember shall steer the vessel on a search leg and turn the vessel effectively onto the next course. Each crewmember shall use the throttles to maintain a given vessel speed over the duration of the pattern. Each crewmember shall lime search legs and communicate new courses and signal the turn to the crew member at the helm.	RQ	OPT	<p>Each crewmember must be familiar with the legs and shapes of the following search patterns:</p> <ul style="list-style-type: none"> (SS) expanding square (VS) sector search. (CSC) creeping line (PS) parallel sweep 	<ul style="list-style-type: none"> Each crewmember shall participate in at least one successful completion of a S8, VS, or P8 search pattern. Each crewmember will act in the role of timing the legs and giving the helm orders, or steering the vessel on the pattern.
Shoreline Search	Each crewmember shall steer the vessel on a shore search and act as spotter in daytime and night conditions.	RQ	OPT	Each crewmember shall be familiar with the procedures for a shoreline search.	Each crewmember will act in the role of spotter or steering the vessel under the direction of the coxswain.
Search Spotter Techniques	<ul style="list-style-type: none"> Personal motivation Night vision acclimatisation Scanning techniques Communication of sighting fatigue <p>Effective scanning movements within the block system are short regular eye movements spaced by two second intervals no more than ten degrees. Two methods of scanning:</p>	RQ	RQ	Crewmembers shall be familiar with the vulnerabilities of the eye and influences on vision.	<ul style="list-style-type: none"> Integrate search spotter techniques into CCGA activities. Crewmember participates as a spotter in a real or simulated search exercise successfully.

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	<ul style="list-style-type: none"> • Side to side • Front to side Using binoculars				
Reporting a Target	The crewmember will use one these methods to perform the following steps: <ul style="list-style-type: none"> • Giving full attention to the target the crewmember will report loudly what is seen and point to the object. • The crewmember will indicate the direction of the sighted object in a manner which the other crew members understand and can orient to. 	RQ	RQ	The crewmember will be familiar with one of the following methods for reporting relative directions: <ul style="list-style-type: none"> • Clock method • Relative bearing • Colour & degrees • Point system 	Given an object that is clearly visible to the spotter in any conditions, given a relative point to represent the bow of a vessel, the crewmember will report the object.