

07 - Towing

Competence (Skills)	Knowledge, Understanding and Proficiency	Level Required		Methods for Demonstrating Competence (Qualification Standard)	Criteria for Evaluating Competence (Performance Standard)
		Coxswain Captain	Crew		
Tow Assessments	<ul style="list-style-type: none"> • Crewmembers shall lead a SAPP assessment for towing by pacing their crew through steps and advising each member of the roles assigned in the plan. • Communicate with the stricken vessel and interview covering critical points and give the basic instructions. 	RQ	OPT	<ul style="list-style-type: none"> • List the main parts of the towing policy and make defensible decisions in regards to carrying out or denying a tow. • Assess the environmental factors along with vessel type and securing points in order to make an approach plan that is safe and manageable. 	<ul style="list-style-type: none"> • Crewmembers will use clear and concise language in a calm and encouraging manner to guide the team through the assessment. • Crew input will be carefully acknowledged and considered.
Towing Assessment and Communications	<p>Each crewmember will participate in a SAPP assessment. Each crewmember will conduct a pre-towing interview with at least five of the following questions:</p> <ul style="list-style-type: none"> • Is everyone all right and accounted for • What is the nature of your problem? • Are you taking on any water? • How many people on board? • Please don your life jackets • What is your hull speed? • Where do wish to go? • What VHF channel are you monitoring? • Do you have a shaft brake? 	RQ	OPT	<ul style="list-style-type: none"> • Each crewmember shall participate in a Stop Assess and Plan protocol with the vessel to be towed. • The crewmember will verbalize vessel characteristics and potential hazards on or around the vessel • Each crewmember will list at least five of the questions asked during a pre towing interview (by radio or in person) • The crewmember will suggest a 	<p>Each crewmember shall:</p> <ul style="list-style-type: none"> • Participate in a successful SAPP assessment List at least five of the previous interview questions or conduct the interview as outlined in the skill section. List the coxswain's commands and signals for towline pass on and line control. Given reasonable weather (light to moderate wind and sea) and another small vessel, each crewmember

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	<ul style="list-style-type: none"> Steering instructions What kind of securing points do you have? Are you able to receive towline? <p>Crewmembers will use the coxswain's commands and signals during the tow operations.</p>			<p>towing plan based on the information collected so far</p> <ul style="list-style-type: none"> Each crewmember will repeat the commands/signals given in passing the line, controlling the line and emergencies 	<p>will:</p> <ul style="list-style-type: none"> Participate in a successful SAPP assessment of the tow Either answer questions outlined in Knowledge section or conduct an interview and ask at least five of the question previously listed (or other directly relevant questions) Use the coxswain's commands and signals in the surging and taking in of a towline.
Lead Towing Operations	Understand towing policies and procedures	RQ	OPT	<ul style="list-style-type: none"> Describe the CCGA towing policy for disabled vessels Describe the process for obtaining a towing waiver Describe the considerations for release / abort of tow Describe regulations as they apply to conducting tows at sea (e.g. Collision Regulations) Be aware of towing in ice policy 	

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	Prepare for towing			<ul style="list-style-type: none"> • Describe the use and maintenance of towing hardware, lines and chafing gear • Evaluate the various hazards of towing operations including the dangers of handling lines and girding • Explain the safety measures which should be taken throughout a towing evolution • Explain the towing characteristics of various vessel types • Perform a pre-arrival briefing of own crew prior to establishing a tow • Perform a briefing of a disabled vessel's crew regarding hook-up and towing plans • Synthesize a complete towing plan 	

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	Initiate towing operations			<ul style="list-style-type: none"> • Evaluate the best approach based on an assessment of the predominant environmental condition(s) and the handling characteristics of own vessel • Describe the drift characteristics of different vessel types when disabled • Operate a RHIB while conducting a safe and effective towing approach • Evaluate the concept of the danger zone while working in close proximity to disabled vessels • Describe methods and apparatus utilized for communicating lines to disabled vessels • Describe the various methods for securing tow lines on disabled vessels including the use of tow assist hooks • Operate a RHIB while station keeping and transferring a tow 	

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				line to a disabled vessel	
Select lines for the task to be performed	<ul style="list-style-type: none"> • Determine required type of line • Maintain lines • Inspect lines • Handle lines • Use lines for stowage • Determine breaking strength and working load limit • Estimate length of lines 	RQ	RQ		
Towing Gear	<p>Each crewmember will be able to inspect, Assemble/set up, and use each of the following pieces of equipment:</p> <ul style="list-style-type: none"> • Heaving line • D or bow shackle • Axe or knife • Boat hook • Chafing gear • Tow assist hook • Towing bridle • Towing drogue <p>Each crewmember will be aware of appropriate</p>	RQ	RQ	<p>Each crewmember will be able to identify the following equipment and discuss its use:</p> <ul style="list-style-type: none"> • Heaving line • D or bow shackle • Axe or knife • Boat hook • Chafing gear • Tow assist hook • Towing bridle, drogue <p>Each crewmember will explain the equipment limitations and</p>	<ul style="list-style-type: none"> • When given a hypothetical vessel and situation each crewmember shall apply the information given to choose the appropriate towing gear for that situation. • Each crewmember will participate in the appropriate use of at least two of the items listed in the skill column.

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	use of this equipment			appropriate use.	
Towing Grounded Vessel	Each crewmember will locate and describe the use of the towing equipment in the listed different situations.	RQ	OPT	<p>Each crewmember will explain the following strategies for assisting vessels:</p> <ul style="list-style-type: none"> • Swamped • Aground • Stuck at anchor • Towing vessel on fire 	<ul style="list-style-type: none"> • This knowledge can be evaluated through a tabletop scenario based exercise with a coxswain participating. • Will assist a vessel or simulation of a vessel in one of those listed situations: <ul style="list-style-type: none"> • Swamped • Aground • Stuck at anchor • Towing vessel on fire
Towing Setup - Approach and Passing the Line	<ul style="list-style-type: none"> • Each crewmember shall describe the setup of the towline from storage to ready to pass. • Each crewmember shall explain the principles of line safety and line control. • Each crewmember shall list the coxswain's commands and signals for the passing of the line. 	RQ	RQ	<ul style="list-style-type: none"> • Each crewmember shall ready the SRU's towline securing it up and prepare the necessary equipment to tow a vessel. • Each crewmember shall ready the towline to be passed off to another vessel, using a heaving line it appropriate. • Each crewmember shall respond to the coxswain's commands and signals for the passing of the 	<ul style="list-style-type: none"> • Given a familiar vessel each crewmember will explain the steps and hazards to set up the towline to be ready to be passed off to another vessel. • Each crewmember will describe the fundamentals of line safety. • Each crewmember shall list the signals and commands used by the coxswain for passing the line and controlling the line or

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				<p>towline.</p> <ul style="list-style-type: none"> Each crewmember shall successfully pass the towline. 	<p>use these signals in the successful performance of the skill.</p> <ul style="list-style-type: none"> Given a familiar vessel, each crewmember shall set up the towline with due regard to line safety and pass it all to another vessel successfully. The commands and signals of the coxswain will guide this skill.
	Towing astern	RQ	OPT	<ul style="list-style-type: none"> Describe the method of safely and effectively paying out tow line and making fast to bits on own vessel Describe the use of drogues in towing operations Describe methods of towing vessels at anchor or aground Describe the importance of keeping a towed vessel "in step" Describe the rationale behind maintaining a towing watch Explain the effects of girding and 	

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	Towing alongside and docking the tow			<p>possible corrective measures</p> <ul style="list-style-type: none"> • Operate a RHIB through an astern tow set-up and evolution • Describe under what Circumstances a Tow Line can and should be shortened • Explain the Transition from a Stern Tow to an Alongside Tow • Explain the Process for Mooring a Disabled Vessel to a Dock using the “short tow” method • Operate a RHIB while Shortening the Tow • Operate a RHIB while Mooring a Disabled Vessel to a Dock using the alongside towing method 	
Towing Alongside	<ul style="list-style-type: none"> • Each crewmember, following the commands and signals of the coxswain, will set lip the lines for towing a vessel alongside. • Each crewmember will control the lines and adjust them for appropriate tension 	RQ	OPT	<ul style="list-style-type: none"> • Each crewmember will be able to draw the line configuration for towing a vessel alongside. • Each crewmember will explain the importance of the oblique angle and line tension in the 	<ul style="list-style-type: none"> • Without references, each crewmember shall draw the line set up for towing alongside prior to commencing an exercise. The other knowledge statements can be evaluated

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	<p>and angle.</p> <ul style="list-style-type: none"> • Each crewmember will control the lines from both the vessel under tow and the SRU. • Each crewmember will use the coxswain's signals and commands to relay distances and other information while keeping a diligent watch. 			<p>effective control of the vessel being towed.</p> <ul style="list-style-type: none"> • Each crewmember will list the signals and commands of the coxswain for line control and calling distance. 	<p>through the successful performance of an alongside towing exercise.</p> <ul style="list-style-type: none"> • Given reasonable weather, each crewmember will participate in a safe and successful alongside low. Each crewmember shall control lines and follow the coxswain's commands and Signals to adjust lines and communicate relevant information to the coxswain while keeping a diligent watch.
Tow Watch and Line Control	<ul style="list-style-type: none"> • Each crewmember will be familiar with the law regarding keeping a watch on a tow. • Each crewmember will be able to recognize the signs of a tow in distress, • Each crewmember will list the commands and signals for line control. 	RQ	RQ	<ul style="list-style-type: none"> • Each crewmember will diligently stand watch on the towed vessel and relay relevant information effectively to the coxswain. • Each crewmember will tend to a towline, following the signals and commands of the coxswain to surge out the line and take in the line. • All steps will be performed using 	Given a vessel under low (or reasonable simulation of lines under load), each crewmember shall watch the tow diligently, surge the line out and take the line in following the signals and commands of the coxswain.

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				the basic principles of line safety.	
Towing Safety	<ul style="list-style-type: none"> Identify potential failures, hazards, and dangerous situations. Inspect the lines and towing gear before the operation commences, brief the crew to adhere to basic safety rules and remind the crew of the dangers as the operation occurs. Monitor the tow operations for dangers such as girding, shock loading and overstress of gear. Assess and monitor seaworthiness of tow. Train the crew to respond effectively to MOB undertow and emergency on board toward vessel. 	OPT	OPT	<ul style="list-style-type: none"> Understand the application, capabilities, and limitations of the towing gear and towing points on both vessels, including factors such as safe working loads and strong points. List the points in a pre-tow briefing In regard to awareness of dangers such as lines under load and breaking gear. List the conditions that may cause a towing emergency. List the commands to use in the event of an emergency such as: MOB, towing vessel in distress, line of gear parting. 	<ul style="list-style-type: none"> Approach towing situations with extreme caution and safety, and recognize operations that are beyond the abilities of the crew, vessels, and/or equipment. Demonstrate an ability to create a diligent routine of monitoring and reporting in regard to safety during the tow. The crewmember shall encourage a two-way flow or communication and be willing to make decisions to change or stop the operations in the event that the situation deteriorates.
Towing Emergencies	<ul style="list-style-type: none"> Each crewmember shall be prepared to act with a sense of urgency and follow the coxswain's commands and signals in the event of one of these contingencies. Each crewmember shall perform the crew tasks involved in the recovery from the 	OPT	OPT	Each crewmember shall test the signals and commands used by the coxswain In the event of an emergency underway.	<ul style="list-style-type: none"> Crewmembers shall explain the steps involved in the listed emergencies when asked. Elective or incidental demonstration given reasonable weather (light to

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	water skills.				moderate wind and sea), each crewmember will participate in a safe and successful recovery of a MOB while under tow.
Vessel Handling and Approaches	Assess and compensate for conditions of wind and current in a towing approach. Manoeuvre the vessel through the assessment, approach, and tow setup. Conduct the towing vessel through the tow maintaining appropriate line tension, astern angle and speed according to vessel hull type and weather.	RQ	OPT	List the different approaches along with the pros and cons for each approach. Identify the danger zones of a stricken vessel in heavy weather.	Handle the vessel during the tow in a purposeful and careful manner so as to reduce the risk of injury and damage to vessels.