

05 - Practical Seamanship

| Competence (Skills) | Knowledge, Understanding and Proficiency | Level Required | | Methods for Demonstrating Competence (Qualification Standard) | Criteria for Evaluating Competence (Performance Standard) |
|--------------------------------------|---|------------------|------|--|---|
| | | Coxswain Captain | Crew | | |
| Exhibit elements of basic seamanship | | X | X | <ul style="list-style-type: none"> Describe Characteristics, construction, advantages and disadvantages of various types of rope Describe the Factors that Affect the Strength of lines Discuss the Handling and Stowage of Different Types of lines Discuss Various Types of Deck Fittings and their use. | |
| Lines | <ul style="list-style-type: none"> Care, handling and storage of lines Inspection of lines Line throwing, heaving lines Docking/undocking - mooring lines, fenders Knots/hitches/bends Securing for adverse weather | X | X | In accordance with standard operating procedures and the practice of good seamanship. | <ul style="list-style-type: none"> Integrate aspects of line handling into CCGA activities Demonstrate selected knots and hitches Select the most suitable knot and/or hitch for specified aspects of CCGA activities (i.e. securing, towing, transferring lines) |
| Throwing a Line | Each crewmember shall prepare and throw a | X | X | <ul style="list-style-type: none"> Each crewmember shall state at | Given a hypothetical situation or a |

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| | heaving line using the following steps: <ul style="list-style-type: none"> • Coil it • Hold it • Aim it • Toss it! Each crewmember shall attach a heaving line onto a larger line using a slip bowline. | | | least two situations in which it would be necessary to throw a line or a heaving line. <ul style="list-style-type: none"> • Each crewmember shall describe a heaving line and its purpose. | scenario in the skill demonstration each crewmember shall choose the appropriate line to throw and give an example of an inappropriate line to use. Each crewmember shall explain the proper use of a heaving line and when it should be used in a small boat setting. Elective or incidental: Given a working line and for heaving line and a target, each crewmember shall prepare, secure and throw a heaving line in the predicted direction and have the line extend without tangle. |
| Deck Safety and Lines under Load | <ul style="list-style-type: none"> • Each crewmember shall demonstrate safe working practices when demonstrating skills such as anchoring and lowing. • Lines will be kept orderly and direct communication will be used when working with tines under load. • Each crewmember will demonstrate the ability to secure gear and equipment in | X | X | Each crewmember shall know the following safety rules: <ul style="list-style-type: none"> • Do not stand in the bight • Do not stand under a load • Wear your safety gear • Do not use gloves with rope • towline • Keep hands away when feeding a | Given exercises like anchoring, lowing and tying up, each crewmember will demonstrate that he possesses the knowledge. |

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| | lockers and on deck. <ul style="list-style-type: none"> Each crewmember will exercise caution when doing so. | | | line out <ul style="list-style-type: none"> Prevent shock loading Stand aside from the direction of recoil of a towline under load | |
| Knots and Lines | Each crewmember shall tie the following knots: <ul style="list-style-type: none"> Bowline Round turn and two half hitches Stove hitch Reef knot Sheet bend Each crewmember shall use these knots in various applications. Each crewmember shall coil and stow lines. | X | X | Each crewmember shall identify the types of line found on the vessel and describe the strengths and weaknesses of each type. <ul style="list-style-type: none"> Polypropylene Nylon/Dacron (other) Natural Fibre Each crewmember shall describe proper line care and stowage. Each crewmember shall identify the signs of line damage or excessive wear. | Each crewmember shall know the types of lines and correct care and stowage of lines. Given a piece of line, the crewmember shall tie the following knots correctly at least once: <ul style="list-style-type: none"> Bowline Round turn and two half hitches Clove hitch Reef knot Sheet bend Each crewmember shall use these knots in effective applications. Each crewmember shall coil and stow lines. |
| Complete basic knots and splices in fiber rope Care for rope and perform | Knowledge of: <ul style="list-style-type: none"> use and care of types of rope, wire and | X | X | | <ul style="list-style-type: none"> Duties related to mooring the vessel are completed safely and |

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| duties related to mooring the vessel. | chain found on board ship; <ul style="list-style-type: none"> • markings on lifting tackle. Ability to: <ul style="list-style-type: none"> • make basic knots and splice in fiber rope; • coil, flake rope wire or chain; • handle and secure ship with mooring lines; • take soundings; • coil and throw a heaving line. | | | | in accordance with the vessel procedures. <ul style="list-style-type: none"> • Safety equipment is worn/used in accordance with vessel procedures. |
| Advanced Line Handling & Knots | <ul style="list-style-type: none"> • Must be able to splice three strand line, whip line ends • Must have knowledge in the various knots used in rigging for hoisting and securing. Can train others in efficient line handling skills. | X | X | Crewmembers will be familiar with the application of the following knots and splices: <ul style="list-style-type: none"> • Three strand splice, sailmaker's whipping, carrick bend, double sheet bend, rolling hitch, running bowline, coiling, stowing and flaking line. | Can display different samples of technical rope work. Shows a genuine interest in line handling and rope work. |
| Splice/sew and care for wire and fiber rope and canvas | Knowledge of: <ul style="list-style-type: none"> • breaking and Safe Working Load of rope and wire. Ability to: <ul style="list-style-type: none"> • splice wire and Samson braid; | X | X | | <ul style="list-style-type: none"> • All rope, wire and chain work is completed in a safe manner. • All chosen rope, wire, chain and fittings are safe and suited to the intended use. |

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| | <ul style="list-style-type: none"> break out new coils of rope and wire; and sew canvas. | | | | |
| Docking | Each crewmember shall approach slowly and come alongside a dock and bring the vessel to a complete stop. Each crewmember shall compensate for wind and current when approaching. Each crewmember shall be able to enter a dock stem first and dock with using the wheel. | X | X | Each crewmember will explain the effects of wind and current when coming alongside a vessel or docking. | Given a familiar vessel, and reasonable weather conditions each crewmember shall take into account the wind and current and bring the vessel parallel to the dock and to a complete stop. The vessel shall be no more than 0.5 of a metre away from the dock for a period of 10 seconds. |
| Docking | Mooring of a vessel and related seamanship work | X | X | <ul style="list-style-type: none"> Understand the role of ropes, lines, knots and splices in the marine industry Explain the different construction methods and properties and limitations of synthetic and natural ropes List the names of the common mooring lines and how to properly secure a vessel to a dock (floating and non-floating wharves) Understand the role and when to | <ul style="list-style-type: none"> Crewmembers will consistently assess and adjust on scene conditions and developing situations with regards to a slow courteous controlled approach when manoeuvring or docking. Maneuver the vessel with awareness of public perception professionalism and composure. |

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| | | | | use fenders <ul style="list-style-type: none"> • Demonstrate basic knots, bends and hitches | |
| Mooring and Securing a Vessel | <ul style="list-style-type: none"> • Each crewmember will secure and let these lines in the appropriate order (order defined by the coxswain). • Each crewmember will apply bowline on first and on last when passing a line to another vessel alongside while underway. | X | X | Each crewmember will identify the following five lines: <ul style="list-style-type: none"> • Bowline • Forward spring line • Breast line • After spring • Stern line | The crewmember should know the five mooring lines and their purpose. Given a familiar vessel with a minimum of three mooring lines, each crewmember will demonstrate the habits listed in the skill section through exercises like anchoring, towing, and tying up. |
| Safely stow and secure cargo and equipment and secure vessel for sea. | Knowledge of: <ul style="list-style-type: none"> • potential hazards and precautions to be observed when carrying dangerous cargoes; • Securing arrangements for deck cargoes. Ability to: <ul style="list-style-type: none"> • secure ship for heavy weather; • supervise cargo operations; • plan stowage of cargo on and below deck. | X | X | | Cargo operations are carried out in a safe manner, in accordance with: <ul style="list-style-type: none"> • Ship's procedures; • Tackle Regulations; • Safe Working Practices Regulations. Cargo stowage is planned and executed in a safe and efficient manner, having regard to weather, special cargo requirements, and ship's operations. |
| Anchoring | Each crewmember will participate in the | X | X | Each crewmember will identify the | Given a familiar CCGA Vessel in a |

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| | <p>successful anchoring of a vessel that involves the responsibility of one or more of the following roles:</p> <ul style="list-style-type: none"> • Setting up the anchor • Dropping the anchor • Manoeuvring the vessel • Retrieving the anchor • Stowing the anchor | | | <p>following parts of an anchor:</p> <ul style="list-style-type: none"> • Shank • Fluke • Crown • Stock <p>Each crewmember will define the term scope and its relevance to anchoring.</p> | <p>depth of water not greater than half the length of the anchor rope. Equipped with an anchor and appropriate ground tackle. Each crewmember will participate in successful anchoring exercise.</p> |
| Take charge of anchor party and operate windlass. | <p>Knowledge of:</p> <ul style="list-style-type: none"> • communications procedures; • safety precautions; and standard anchoring procedures. <p>Ability to:</p> <ul style="list-style-type: none"> • operate anchor windlass; and raise, lower, and secure anchor. | X | X | <ul style="list-style-type: none"> • Describe basic anchoring terminology and theory • Evaluate the circumstances under which anchoring would be appropriate • Perform anchoring and weighing anchor operations • Describe the method for clearing a fouled anchor | Anchor operations are completed in a safe manner, in accordance with vessels procedures. |