



# Boat Crew Member Manual

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## Introduction

The following are the instructions for this chapter:

- The purpose of this Chapter is to provide guidance on the trainee's progress through the qualification tasks.
- The instructor should present the tasks to the trainee in a logical order using the instructions provided in *Part 1*
- Tasks should be signed, dated, and placed in the trainee's training record when the instructor is satisfied that the trainee can consistently perform a task in accordance with all standards and conditions.

## In This Chapter

This Chapter contains the following sections

| Section | Title  | Page |
|---------|--|------|
| A       | Crew Efficiency Factors, Risk Factors and Team Coordination                          |      |
| B       | Physical Fitness, First-Aid, and Survival  |      |
| C       | Marlinspike Seamanship, Boat Nomenclature, Nautical Terminology, And Basic Stability |      |
| D       | Boat and Equipment Orientation   |      |
| E       | Communication  |      |
| F       | Navigation   |      |
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## Section A. Crew Efficiency Factors, Risk Factors and Team Coordination

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### Introduction

The following are objectives of Boat Crew Member Training

- **Demonstrate** knowledge of the factors that effect crew performance.
- **Attend** Team Coordination Training

### In This Section

This section contains the following tasks:

| Task Number | Task              | See Page |
|-------------|-------------------|----------|
| BCM-01-01   | Crew Fatigue      |          |
| BCM-01-02   | Motion Sickness   |          |
| BCM-01-03   | Team Coordination |          |

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**TASK BCM-01-01**                      **Crew Fatigue**

**NOTE:** This task is mandatory to complete Division BCSM minimum standards.

**References:**

**Conditions:**     Task should be performed at any time, at facilities available to the team

**Standards:**     Trainee must demonstrate knowledge of each task to the minimum standards included in each performance step.

| <b>Performance Criteria</b>                        | <b>Completed (Initials)</b> |
|--|-----------------------------|
| 1. Describe the situations that may cause fatigue. |                             |
| 2. State the crew's responsibility.                |                             |
| 3. Describe the primary symptoms of fatigue.       |                             |
| 4. Describe the prevention measures.               |                             |
| 5. State underway limits for <i>Rescue One</i>     |                             |
| 6. State underway limits for <i>Rescue Four</i>    |                             |
| 7. State underway limits for <i>RIB</i>            |                             |

**Instructor:** \_\_\_\_\_ **Date:** \_\_\_\_\_

**Comments**

**TASK BCM-01-02                      Motion Sickness**

**NOTE: This task is mandatory to complete Division BCSM minimum standards.**

**References**

**Conditions**     Task should be performed at any time, at facilities available to the team

**Standards**     Trainee must demonstrate knowledge of each task to the minimum standards included in each performance step.

| <b>Performance Criteria</b>                                   | <b>Completed (Initials)</b> |
|---|-----------------------------|
| 1. Explain the causes of motion sickness.                     |                             |
| 2. List the symptoms of motion sickness.                      |                             |
| 3. List the prevention and medication for motion sickness.    |                             |
| 4. Explain when best to take anti-motion sickness medication. |                             |

**Instructor:** \_\_\_\_\_ **Date:** \_\_\_\_\_

**Comments**

Boat Crew Certification Manual

**TASK BCM-01-03**

**Team Coordination Training (TCT)**

**References**

**Conditions** Task should be performed at any time, at facilities available to the team.

**Standards** Trainee must attend the training as prescribed in the reference above

| <b>Performance Criteria</b>                | <b>Completed (Initials)</b> |
|--|-----------------------------|
| 1. Date and initial the training completed |                             |

**Instructor:** \_\_\_\_\_ **Date:** \_\_\_\_\_

**Comments**




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## Section B. Physical Fitness, First-Aid, and Survival

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### Introduction

The following are objectives of Boat Crew Member Training

- **Achieve** and **maintain** the level of physical condition necessary to safely and properly carry out the duties of a boat crew member aboard a Division vessel
  - **Identify** and **become** proficient in those skills necessary for coping with open water survival situations
  - **Effectively** use all standard boat crew signaling and survival equipment
- 

**In This Section** This Section contains the following tasks:

| Task Number | Task  | Page |
|-------------|---|------|
| BCM-02-01   | Crew First-Aid Responsibility   |      |
| BCM-02-02   | Demonstrate Adult, Child and Infant CPR   |      |
| BCM-02-03   | Don the Type III PFD  |      |
| BCM-02-04   | Don the Type III Flotation Jacket   |      |
| BCM-02-05   | Don Personal Foul Weather Gear  |      |
| BCM-02-06   | Don the Type II PFD   |      |
| BCM-02-07   | Demonstrate Donning a Type I PFD on a Prisoner (NOTE – Required task of Division LE officers. Non LE officers and volunteers are exempt from this task. |      |
| BCM-02-08   | Use the Emergency Signaling Mirror  |      |
| BCM-02-09   | Demonstrate the use of the Daylight Smoke Flare   |      |
| BCM-02-10   | Demonstrate the Use of the Night Time Candle Flare  |      |
| BCM-02-11   | Demonstrate the use of the Flare Gun  |      |
| BCM-02-12   | Operate the Strobe Light  |      |
| BCM-02-13   | Don the Inflatable PFD  |      |
| BCM-02-14   | <a href="#">Demonstrate the Manual Deployment and Boarding Procedures for the RIB from <i>Rescue One</i></a>  |      |
| BCM-02-15   | List Survival Procedures in Event of Boat Capsize   |      |
| BCM-02-16   | Open Water Survival Skills  |      |
| BCM-02-17   | Perform Water Survival Exercise   |      |
| BCM-02-18   | Discuss Division PFD policy.  |      |
| BCM-02-19   | Locate and discuss reasons for using engine cut off lanyard.  |      |

**TASK BCM-02-01**

**Crew First-Aid Responsibility**

**NOTE: This task is mandatory to complete Division BCSM minimum standards.**

**Reference:** Certifying Organization’s Training Manual

**Conditions:** Task should be performed at any time, at facilities available to the unit. Trainee must accomplish task without prompting or use of a reference

**Standards:** Trainee must complete the American Heart Association, American Red Cross, National Safety Council, or American Safety and Health Institute First-Aid Course to receive certification.

| <b>Performance Criteria</b>   | <b>Completed (Initials)</b> |
|---|-----------------------------|
| 1. Certification Type and Date course completed:<br>Course: _____ Date: _____ |                             |

**Instructor:** \_\_\_\_\_ **Date:** \_\_\_\_\_

**Comments**

**TASK BCM-02-02**

**Demonstrate Adult, Child and Infant CPR**

**NOTE: This task is mandatory to complete Division BCSM minimum standards.**

**Reference**      Certifying Organization’s Training Manual

**Conditions**      Task should be performed at any time, at facilities available to the team. Trainee must accomplish task without prompting or use of a reference

**Standards**      Trainee must complete the American Red Cross, American Heart Association, National Safety Council, or American Safety and Health Institute CPR course to receive certification.

| <b>Performance Criteria</b>   | <b>Completed (Initial)</b> |
|---|----------------------------|
| 1. Certification Type and Date course completed.<br>Course: _____ Date: _____ |                            |

**Instructor:** \_\_\_\_\_ **Date:** \_\_\_\_\_

**Comments**



**TASK BCM-02-03**

**Don the Type III PFD**

**NOTE:** This task is mandatory to complete Division BCSM minimum standards.

**References:**

**Conditions:** Task should be performed at any time, at facilities available to the team.

**Standards:** In response to the instructor, the trainee shall, without error, don the Type III PFD.

| <b>Performance Criteria</b>  | <b>Completed (Initials)</b> |
|--|-----------------------------|
| 1. Demonstrate proper donning of the Type III PFD and adjust for proper fit. |                             |
| 2. State when the Type III is required to be worn.                           |                             |

**Instructor:** \_\_\_\_\_ **Date:** \_\_\_\_\_

**Comments**

**TASK BCM-02-04**

**Don the Type III Flotation Jacket**

**NOTE:** This task is mandatory to complete Division BCSM minimum standards.

**References**     Parks Policy Manual **Need Actual Policy Number**

**Conditions:**     Task should be performed at any time, at facilities available to the team

**Standards:**     In response to the instructor, the trainee shall, without error, don the Type III flotation jacket.

| <b>Performance Criteria</b>   | <b>Completed (Initials)</b> |
|---|-----------------------------|
| 1. Demonstrate proper donning of the Type III flotation jacket and adjust for proper fit. |                             |
| 2. State when the Type III PFD is required to be worn.                                    |                             |

**Instructor:** \_\_\_\_\_ **Date:** \_\_\_\_\_

**Comments**

**TASK BCM-02-05**

**Don Personal Foul Weather Gear**

**References:**

**Conditions:** Task should be performed at any time, at facilities available to the team

**Standards:** In response to the instructor, the trainee shall, without error, don his/her foul weather gear.

| <b>Performance Criteria</b>   | <b>Completed (Initials)</b> |
|---|-----------------------------|
| 1. Demonstrate the proper donning of your personal foul weather gear and adjust for proper fit. |                             |
| 2. State when foul weather gear is recommended to be worn.                                      |                             |

**Instructor:** \_\_\_\_\_ **Date:** \_\_\_\_\_

**Comments**

**TASK BCM-02-06**

**Don the Type II PFD**

**References:**

**Conditions:** Task should be performed at any time, at facilities available to the team.

**Standards:** In response to the instructor, the trainee shall, without error, don the Type III PFD.

| <b>Performance Criteria</b>   | <b>Completed (Initials)</b> |
|---|-----------------------------|
| 1. Demonstrate proper donning of the Type II PFD and adjust for proper fit. |                             |
| 2. State when the Type II is required to be worn.                           |                             |

**Instructor:** \_\_\_\_\_ **Date:** \_\_\_\_\_

**Comments**

**TASK BCM-02-07      Demonstrate Donning a Type I PFD on a Prisoner**

**NOTE: This task is a REQUIRED task of Division LE Employees Only. Non LE employees and volunteers are exempt from this task.**

**References:**                    Division Policy

**Conditions:**                Task should be performed at any time at facilities available to the team.

**Standards:**                In response to the instructor, the trainee shall, without error, don the Type I PFD on a "prisoner"

| <b>Performance Criteria</b>  | <b>Completed (Initials)</b> |
|--|-----------------------------|
| 1. Demonstrate proper donning of the Type I PFD and adjust for proper fit. |                             |
| 2. State when the Type I is required to be worn.                           |                             |
| 3. State the proper positioning of a "prisoner" on a Division vessel.      |                             |

**Instructor:** \_\_\_\_\_ **Date:** \_\_\_\_\_

**Comments**

**TASK BCM-02-08**

**Demonstrate the Use of a Signaling Mirror**

**References:**

**Conditions:** Task should be performed at any time, at facilities available to the team.

**Standards:** The light rays from the sun must be reflected onto the predetermined object within one minute of trainee receiving a signal from the instructor.

| <b>Performance Criteria</b>  | <b>Completed (Initials)</b> |
|--|-----------------------------|
| 1. Locate and break out signal mirror  |                             |
| 2. Reflect sunlight from the mirror onto a nearby surface (hand, wall, boat)           |                             |
| 3. Bring mirror to eye level, and sight target through sighting hole.                  |                             |
| 4. Hold mirror close to eye and manipulate so that light spot is on designated target. |                             |
| 5. Sweep horizon to demonstrate attention-attracting technique                         |                             |

**Instructor:** \_\_\_\_\_ **Date:** \_\_\_\_\_

**Comments**

**TASK BCM-02-09**

**Demonstrate the use of the Daylight Smoke Flare**

**References:**

**Conditions:** Task should be performed at any time, outside at facilities available to the team.

**Standards:** In response to the instructor, the trainee shall, without error, demonstrate the use of a daylight smoke flare.

| <b>Performance Criteria</b>  | <b>Completed (Initials)</b> |
|--|-----------------------------|
| 1. Find flare kit and break out daylight smoke signal.                                     |                             |
| 2. Identify cap and demonstrate its removal.   |                             |
| 3. Demonstrate using the striker to ignite flare.  |                             |
| 4. Explain why flare should be ignited outside the cabin of the boat and downwind of crew. |                             |

**Instructor:** \_\_\_\_\_ **Date:** \_\_\_\_\_

**Comments**

**TASK BCM-02-10**

**Demonstrate the use of Night Time Candle Flare**

**References:**

**Conditions:** Task should be performed at any time, outside at facilities available to the team.

**Standards:** In response to the instructor, the trainee shall, without error, demonstrate the use of a Night Time Candle Flare.

| <b>Performance Criteria</b>  | <b>Completed (Initials)</b> |
|--|-----------------------------|
| 1. Find flare kit and break out the candle flare.  |                             |
| 2. Identify cap and demonstrate its removal.   |                             |
| 3. Demonstrate using the striker to ignite flare.  |                             |
| 4. Explain why flare should be ignited outside the cabin of the boat and downwind of crew. |                             |

**Instructor:** \_\_\_\_\_ **Date:** \_\_\_\_\_

**Comments**



**TASK BCM-02-11**

**Demonstrate the use of the Flare Gun**

**References:**

**Conditions:** Task should be performed at any time, outside at facilities available to the team.

**Standards:** In response to the instructor, the trainee shall, without error, demonstrate the use of a Night Time Candle Flare.

| <b>Performance Criteria</b>  | <b>Completed (Initials)</b> |
|--|-----------------------------|
| 1. Find flare kit and break out the flare gun.                               |                             |
| 2. Explain why the gun should always be pointed in a safe direction.         |                             |
| 3. Demonstrate loading a standard areal flare.                               |                             |
| 4. Demonstrate loading a parachute flare.                                    |                             |
| 5. Demonstrate aiming the flare gun upward in a safe and downwind direction. |                             |
| 6. Explain why we aim the flare gun upward in a safe and downwind direction. |                             |
| 7. Demonstrate firing the flare gun  |                             |
| 8. Demonstrate safe practices in a misfire.                                  |                             |

**Instructor:** \_\_\_\_\_ **Date:** \_\_\_\_\_

**Comments**

**TASK BCM-02-12**

**Operate the Strobe Light**

**References:**

**Conditions:** Task should be performed at any time, at facilities available to the team.

**Standards:** In response to the instructor, the trainee shall, without error, operate the strobe light.

| <b>Performance Criteria</b>                   | <b>Completed (Initials)</b> |
|---|-----------------------------|
| 1. Locate the strobe light in a rescue vessel |                             |
| 2. Activate strobe light.                     |                             |

**Instructor:** \_\_\_\_\_ **Date:** \_\_\_\_\_

**Comments**

**TASK BCM-02-13**

**Don the Inflatable PFD**

**NOTE:** This task is mandatory to complete Division BCSM minimum standards.

**References:**

**Conditions:** Task should be performed at any time, at facilities available to the team.

**Standards:** In response to the instructor, the trainee shall, without error, don the Inflatable PFD.

| <b>Performance Criteria</b>  | <b>Completed (Initials)</b> |
|--|-----------------------------|
| 1. Demonstrate proper donning of the Inflatable PFD and adjust for proper fit. |                             |
| 2. State when the Inflatable PFD is required to be worn.                       |                             |

**Instructor:** \_\_\_\_\_ **Date:** \_\_\_\_\_

**Comments**

**TASK BCM-02-14**

**Demonstrate the Manual Deployment and Boarding Procedures for the RIB from *Rescue One***

**NOTE:** This task is mandatory of Division employees and volunteers only if working at the Great Salt Lake State Marina

**References:**

**Conditions:** Task should be performed from *Rescue One*. Task may be performed at any time. Trainee must accomplish the task without prompting or the use of a reference.

**Standards:** Trainee should be able to identify equipment, and cite steps in the procedures without error.

| <b>Performance Criteria</b>  | <b>Completed (Initials)</b> |
|--|-----------------------------|
| 1. Identify and locate RIB and RIB outboard motor.   |                             |
| 2. Demonstrate un-securing RIB from its tie-downs and setting up on stern deck.                      |                             |
| 3. Demonstrate properly inflating the boat.  |                             |
| 4. Demonstrate installing outboard motor.  |                             |
| 5. Explain the best location to deploy the RIB from dependent upon environmental conditions.         |                             |
| 6. Place RIB in water in best location for boarding  |                             |
| 7. Demonstrate securing RIB alongside <i>Rescue One</i>  |                             |
| 8. Board RIB from <i>Rescue One</i> .  |                             |
| 9. Demonstrate proper starting procedures for the outboard motor                                     |                             |
| 10. Demonstrate the kill switch feature and attaching the lanyard to yourself                        |                             |
| 11. Demonstrate proper departure procedures from <i>Rescue One</i>                                   |                             |
| 12. Demonstrate proper approach procedures to <i>Rescue One</i>                                      |                             |
| 13. Demonstrate securing RIB to <i>Rescue One</i>  |                             |
| 14. Demonstrate proper procedure for arresting outboard motor  |                             |
| 15. Demonstrate attaching safety line from outboard motor to <i>Rescue One</i>                       |                             |
| 16. Demonstrate removing outboard motor, hoisting and securing to motor bracket on <i>Rescue One</i> |                             |
| 17. Demonstrate boarding <i>Rescue One</i> from RIB  |                             |
| 18. Demonstrate retrieving RIB back onto <i>Rescue One</i>   |                             |
| 19. Demonstrate covering RIB and securing on <i>Rescue One</i>                                       |                             |

**Instructor:** \_\_\_\_\_ **Date:** \_\_\_\_\_

**Comments**

**TASK BCM-02-15**

**List Survival Procedures in Event of Boat Capsize**

**References:**

**Conditions:** Trainee must accomplish the task without prompting or the use of references.

**Standards:** Trainee should be able to list all steps in the procedure without error.

| <b>Performance Criteria</b>   | <b>Completed (Initials)</b> |
|---|-----------------------------|
| 1. State all egress routes.   |                             |
| 2. Locate nearest exit to open water.   |                             |
| 3. Inventory survival gear.   |                             |
| 4. Select best swimmer to exit first carrying line.                             |                             |
| 5. First swimmer exits craft, if necessary, with PFD in hand.                   |                             |
| 6. First swimmer contacts crew still inside by tapping on the hull of the boat. |                             |
| 7. Rest of crew exits one at a time.  |                             |
| 8. Crew stays with boat until rescued or boat sinks.                            |                             |

**Instructor:** \_\_\_\_\_ **Date:** \_\_\_\_\_

**Comments**

**TASK BCM-02-16**

**Open Water Survival Skills**

- References:**
- a. *Boat Crew Seamanship Manual*
  - b. *Rescue and Survival Systems Manual*
  - c. *Team Coordination Training*

**Conditions:** Task should be performed at any time, at facilities available to the team.

**Standards:** In response to the instructor, the trainee shall explain risk-based decisions associated with open water skills

| <b>Performance Criteria</b>  | <b>Completed (Initials)</b> |
|--|-----------------------------|
| 1. Explain the benefits associated with the different levels of hypothermia protective garments.   |                             |
| 2. Explain the factors that accelerate the onset of hypothermia.   |                             |
| 3. Describe the preventive measures that can be used to increase the chances of successful open water survival including methods of tethering. |                             |
| 4. Explain the benefits for getting your body out of the water as much as possible in open water survival situations.                          |                             |
| 5. Explain risk-based decisions associated with swimming in open water survival situations.  |                             |
| 6. Describe the method for Climbing onto an overturned boat hull   |                             |
| 7. Describe the method for boarding <i>Rescue One</i> from the water   |                             |
| 8. Describe the method for boarding <i>Rescue Four</i> from the water.   |                             |
| 9. Describe the method for boarding the RIB from the water.  |                             |
| 10. Describe the method for boarding a kayak from the water.   |                             |

**Instructor:** \_\_\_\_\_ **Date:** \_\_\_\_\_

**Comments**

**TASK BCM-02-17****Open Water Survival Skills**

**References:** a. *Boat Crew Seamanship Manual*  
 b. *Rescue and Survival Systems Manual*

**Conditions:** This exercise shall be completed by entering the water from a height of approximately 3 feet above the surface from the level of the boat’s main deck. **Trainee shall wear flotation, hypothermia protective garments and survival equipment consistent with the coldest weather and water temperature experienced at Great Salt Lake.** If this task is completed near a boat or docks, ensure the area is free of any dangers. An immediate means of response must be available to assist any member that develops trouble during the completion of this task. Trainee shall accomplish task without prompting or use of a reference.

**Standards:** In response to the instructor, the trainee shall, without error, complete all steps of the water survival exercise

| Performance Criteria   | Completed (Initials) |
|--|----------------------|
| 1. Don flotation, hypothermia protective garments and survival equipment, and adjust for proper fit.   |                      |
| 2. Enter the water from a height of approximately 3 feet from the level of the boat’s main deck<br>(Check surrounding water for debris and depth. Look straight ahead when entering water, but maintain awareness of surroundings. Maintain vertical position, body erect, upon entry into water. Minimize initial immersion by spreading arms and applying a scissors kick upon entry). |                      |
| 3. Adjust flotation, hypothermia protective garments and survival equipment to reduce water intrusion, heat loss, and to improve mobility and buoyancy.  |                      |
| 4. Swim 50 yards by using an energy conserving stroke or movement. (note: the preferred swim stroke is the resting backstroke).  |                      |
| 5. Demonstrate the Heat Escape Lessening Position (HELP) for a single person in the water.   |                      |
| 6. Tether to other survivors and demonstrate the HELP for multiple survivors.  |                      |
| 7. Access and demonstrate the use of the following equipment: Strobe light, whistle, signal mirror, flare (if equipped), Knife, tether (if carried)  |                      |

**Instructor:** \_\_\_\_\_ **Date:** \_\_\_\_\_

**Comments**

**TASK BCM-02-18**

**Discuss Division PFD Policy**

**Reference** Boat Crew Seamanship Manual, Division Policy

**Conditions** Task should be performed at any time at facilities available to the team.

**Standards** In response to the instructor, the trainee shall, without error, demonstrate knowledge of Division policy regarding wearing of a proper PFD onboard Division vessels.

| <b>Performance Criteria</b>   | <b>Completed (Initials)</b> |
|---|-----------------------------|
| 1. Demonstrate knowledge of Division policy regarding the wearing of PFD's on Division vessels.                               |                             |
| 2. Demonstrate knowledge of Division policy regarding the wearing of PFD's on Division vessels. (Division LE employees only). |                             |

**Instructor:** \_\_\_\_\_ **Date:** \_\_\_\_\_

**Comments**



**TASK BCM-02-19**      **Locate and discuss reasons for using engine cut off lanyard.**

**Reference**                      Division Vessel Owner’s Manual (specific to each vessel)

**Conditions**                      Task should be performed at any time at facilities available to the team.

**Standards**                      In response to the instructor, the trainee shall, without error, demonstrate how to properly wear engine cutoff lanyard and explain the importance of wearing the lanyard.

| <b>Performance Criteria</b>                                     | <b>Completed (Initials)</b> |
|---|-----------------------------|
| 1. Demonstrate to proper wearing of the engine cut off lanyard. |                             |
| 2. State the importance of wearing the engine cut of lanyard.   |                             |

**Instructor:** \_\_\_\_\_ **Date:** \_\_\_\_\_

**Comments**



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## Section C. Marlinspike Seamanship, Boat Nomenclature, Nautical Terminology, and Basic Stability

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**Introduction** The following are objectives of the Great Salt Lake Volunteer Search & Rescue Team:

**Identify, explain** the use of, and be able to consistently tie the basic knots and hitches used aboard Division vessels.

**Demonstrate** the ability to secure lines of various sizes to several types of deck and dock fittings

**Identify** the different parts of a boat's ground tackle and be able to assist in anchoring a boat.

**In This Section** This section contains the following tasks:

| Task Number | Task   | See Pages |
|-------------|--|-----------|
| BCM-03-01   | State Common Boat Nomenclature and Terminology                               |           |
| BCM-03-02   | Locate and Identify the Purpose of the Equipment Aboard the Boat             |           |
| BCM-03-03   | Boat Characteristics – Boat Construction                                     |           |
| BCM-03-04   | Boat Characteristics – Watertight Integrity                                  |           |
| BCM-03-05   | Stability  |           |
| BCM-03-06   | Identify the Different Parts of a Line and the Hitches Used in Line Handling |           |
| BCM-03-07   | Tie Various Knots, Hitches, and Bends  |           |
| BCM-03-08   | Secure Lines to Cleats, Bitts, and Posts                                     |           |

**TASK BCM-03-01**

**State Common Boat Nomenclature and Terminology**

**NOTE:** This task is mandatory to complete Division BCSM minimum standards.

**References:** Chapman Piloting, Boat Crew Seamanship Manual

**Conditions:** This task should be performed onboard one of the Division’s vessels. Trainee must accomplish the task without prompting or use of a reference

**Standards:** In response to the instructor, the trainee must, without error, different locations and positions aboard the boat

| <b>Performance Criteria</b>                         | <b>Completed (Initials)</b> |
|---|-----------------------------|
| 1. Identify bow of the boat.                        |                             |
| 2. On command, move forward on the boat.            |                             |
| 3. Identify starboard side of boat.                 |                             |
| 4. Identify port side of boat                       |                             |
| 5. Identify athwartships.                           |                             |
| 6. Identify outboard and inboard area.              |                             |
| 7. Identify stern of the boat.                      |                             |
| 8. Identify port quarter.                           |                             |
| 9. Identify starboard bow.                          |                             |
| 10. Identify windward and leeward side of the boat. |                             |
| 11. Identify transom of boat                        |                             |
| 12. Identify topsides of boat                       |                             |
| 13. Identify freeboard                              |                             |

**Instructor:** \_\_\_\_\_ **Date:** \_\_\_\_\_

**Comments**

**TASK BCM-03-02****Locate and Identify the Purpose of the Equipment aboard the Boat**

**References:** Boat Crew Seamanship Manual

**Conditions:** Task should be performed using a simple line diagram of a boat and the boat check-off or boat outfit list. Trainee should list the locations of each piece of equipment on the diagram. Trainee must accomplish the task without prompting or use of a reference.

**Standards:** Trainee must label and explain the use of installed equipment and fittings.

| <b>Performance Criteria</b>                              | <b>Completed (Initials)</b> |
|--|-----------------------------|
| 1. Label each piece of equipment on <i>Rescue One</i> .  |                             |
| 2. Label each piece of equipment on <i>Rescue Four</i> . |                             |
| 3. Label each piece of equipment on the RIB.             |                             |

**Instructor:** \_\_\_\_\_ **Date:** \_\_\_\_\_

**Comments**

**TASK BCM-03-03**

**Boat Characteristics – Boat Construction**

**References:** Boat Crew Seamanship Manual

**Conditions:** Task should be performed at any time, at facilities available to the team.

**Standards:** Trainee must demonstrate knowledge of each task.

| <b>Performance Criteria</b>  | <b>Completed (Initials)</b> |
|--|-----------------------------|
| 1. Name and define the type of boat <i>Rescue One</i> is.  |                             |
| 2. Name the type of boat <i>Rescue Four</i> is.  |                             |
| 3. Define keel and name two keel types.  |                             |
| 4. Name and define the most common boat measurements (beam, height, fixed height, length, freeboard, and draft). |                             |
| 5. Name the parts of doors and hatches that are used to make them watertight.                                    |                             |
| 6. Name and define the measurements used to define boat displacement.  |                             |

**Instructor:** \_\_\_\_\_ **Date:** \_\_\_\_\_

**Comments**

**TASK BCM-03-04**

**Boat Characteristics – Watertight Integrity**

**References:** Boat Crew Seamanship Manual

**Conditions:** Task should be performed at any time, at facilities available to the team.

**Standards:** Trainee must either demonstrate knowledge of, or perform each task.

| <b>Performance Criteria</b>   | <b>Completed (Initials)</b> |
|---|-----------------------------|
| 1. State the watertight compartments of each type rescue boat   |                             |
| 2. Describe the factors that should be determined before you open watertight doors and hatches of a damaged boat. |                             |
| 3. Open a watertight door and hatch.  |                             |
| 4. Close a watertight door and hatch.   |                             |

**Instructor:** \_\_\_\_\_ **Date:** \_\_\_\_\_

**Comments**

**TASK BCM-03-05**

**Stability**

**References:** Boat Crew Seamanship Manual

**Conditions:** Task should be performed at any time, at facilities available to the team

**Standards:** Trainee must either demonstrate knowledge of or perform each task.

| <b>Performance Criteria</b>   | <b>Completed (Initials)</b> |
|---|-----------------------------|
| 1. State the two primary forces that affect a vessel's stability                          |                             |
| 2. Define center of gravity and describe how it changes as weight is added or subtracted. |                             |
| 3. Define buoyancy.   |                             |
| 4. Define equilibrium and describe how is it changed during rolling, heeling, and listing |                             |
| 5. State the two types of stability.  |                             |
| 6. Describe the two types of forces that affect stability                                 |                             |
| 7. Describe how Great Salt Lake salinity affects all the above.                           |                             |

**Instructor:** \_\_\_\_\_ **Date:** \_\_\_\_\_

**Comments**

**TASK BCM-03-06**

**Identify the Different Parts of a Line and the Hitches Used in Line Handling**

**NOTE:** This task is mandatory to complete Division BCSM minimum standards.

**References:** Chapman Piloting, Boat Crew Seamanship Manual

**Conditions:** Task should be performed at any time, ashore or afloat, without prompting or use of a reference.

**Standards:** In response to the instructor, the trainee must, without error, identify the different parts and configurations of a line.

| <b>Performance Criteria</b>   | <b>Completed (Initials)</b> |
|---|-----------------------------|
| 1. Define lay of line for: Double braid, Plain laid, Three-strand.                    |                             |
| 2. Define line material: Polypropylene, Nylon, including double braid, Natural fiber. |                             |
| 3. Identify bitter end of line.   |                             |
| 4. Identify standing part of line   |                             |
| 5. Make bight in the line.  |                             |
| 6. Make overhand loop in the line.  |                             |
| 7. Make underhand loop in the line.   |                             |
| 8. Make turn around an object.  |                             |
| 9. Make round turn around an object.  |                             |

**Instructor:** \_\_\_\_\_ **Date:** \_\_\_\_\_

**Comments**



**TASK BCM-03-07**

**Tie Various Knots, Hitches, and Bends**

**NOTE:** This task is mandatory to complete Division BCSM minimum standards.

**References:** Chapman Piloting, Boat Crew Seamanship Manual

**Conditions:** Task should be performed at any time, onboard one of the Division vessels and at the dock, without prompting or use of a reference

**Standards:** In response to the instructor, the trainee must, without error, tie the following hitches, knots and bends quickly and confidently.

| <b>Performance Criteria</b>  | <b>Completed (Initials)</b> |
|--|-----------------------------|
| 1. Tie a square (reef) knot.   |                             |
| 2. Tie a bowline in the end of a mooring line.   |                             |
| 3. Put a temporary eye in a towline, using a bowline.  |                             |
| 4. Untie knot by "breaking" the bowline.   |                             |
| 5. Secure line to a rail using a clove hitch.  |                             |
| 6. Secure clove hitch by using two half hitches.   |                             |
| 7. Mount fender using a slip clove hitch.  |                             |
| 8. Attach heaving line to a towline using a sheet bend, snap hook, bowline and/or clove hitch with two half hitches. |                             |
| 9. Add length of mooring line to a towline using a double becket bend.   |                             |
| 10. Secure log, board, or other rough surfaced object, by using a timber hitch and two half hitches.                 |                             |
| 11. Tie bowline around an object   |                             |
| 12. Tie a figure eight.  |                             |
| 13. Tie a sheet bend.  |                             |
| 14. Tie an anchor bend.  |                             |

**Instructor:** \_\_\_\_\_ **Date:** \_\_\_\_\_

**Comments**

**TASK BCM-03-08****Secure Lines to Cleats, Bitts, and Posts****NOTE: This task is mandatory to complete Division BCSM minimum standards.****References:** Boat Crew Seamanship Manual**Conditions:** Task should be performed at any time, onboard one of the Division vessels and at the dock, without prompting or use of a reference**Standards:** In response to the instructor, the trainee must demonstrate the correct method for securing a line to cleats, bitts and posts.

| <b>Performance Criteria</b>   | <b>Completed (Initials)</b> |
|---|-----------------------------|
| 1. Locate all standard cleats on boat.  |                             |
| 2. Place complete round turn around the base of the cleat.  |                             |
| 3. Lead line over the top of the cleat and around the horns to form a figure eight.                   |                             |
| 4. Secure additional figure eights until the cleat is secured with at least three figure eights.      |                             |
| 5. Finish with a half hitch over one horn.  |                             |
| 6. Identify and locate the Sampson post on boat.  |                             |
| 7. Make complete round turn around the base of the Sampson post.                                      |                             |
| 8. Make several figure eights around the base of the Sampson post.                                    |                             |
| 9. Identify and locate the line bar on both rescue vessels.   |                             |
| 10. Demonstrate coiling a line and attaching it to the line bar.                                      |                             |
| 11. Identify the two ready side-tie lines on the boat and show the proper method to secure the lines. |                             |

**Instructor:** \_\_\_\_\_ **Date:** \_\_\_\_\_**Comments**



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## Section D. Boat Handling

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**Introduction** The following are objectives of the Division:

**Define** the common terms used for identification aboard a Division vessel.

**Identify** and **explain** the purpose or use of the different fittings and equipment located on a Division vessel.

**Demonstrate** the ability to participate in the common watches performed aboard State Park rescue vessels.

**In This Section** This section contains the following tasks:

| Task Number | Task   | Pages |
|-------------|--|-------|
| BCM-04-01   | Rig Fenders to Side of Boat  |       |
| BCM-04-02   | Make Fast a Boat to a Pier (Bow on Mooring, No Current/Wind)       |       |
| BCM-04-03   | Assist in Anchoring the Boat                                       |       |
| BCM-04-04   | Assist in Weighing the Boat's Anchor                               |       |
| BCM-04-05   | Identify the Common Navigation Lights Displayed by Ships and Boats |       |
| BCM-04-06   | Identify the Common Sound Signals Used by Ships and Boats          |       |
| BCM-04-07   | Identify and Describe Accepted Maritime Distress Signals           |       |
| BCM-04-08   | Stand a Lookout Watch  |       |
| BCM-04-09   | Act as a helmsman and steer a compass course                       |       |
| BCM-04-10   | Assist in Getting the Boat Away from a Pier                        |       |
| BCM-04-11   | Assist in Mooring the Boat to a Pier                               |       |

**TASK BCM-04-01****Rig Fenders to Side of the Boat**

**References:** *Boat Crew Seamanship Manual*

**Conditions:** Task should be performed at any time, onboard one of the Division vessels, without prompting or use of a reference

**Standards:** In response to the instructor, the trainee must correctly rig fenders to the side of the boat. Fenders should be the proper height to avoid damage.

| <b>Performance Criteria</b>   | <b>Completed (Initials)</b> |
|---|-----------------------------|
| 1. Tie fenders in place using a slip clove hitch.                                   |                             |
| 2. Tie fenders in place using a clove hitch with a half hitch.                      |                             |
| 3. Position all fenders appropriately for width and height of pilings and piers.    |                             |
| 4. Place all fenders at contact points between boat and pier, dock or another boat. |                             |
| 5. Remove and secure fenders to line bar  |                             |

**Instructor:** \_\_\_\_\_ **Date:** \_\_\_\_\_

**Comments**

**TASK BCM-04-02**

**Make Fast a Boat to a Pier (Bow on Mooring, No Current/Wind)**

**NOTE:** This task is mandatory to complete Division BCSM minimum standards.

**References:** *Boat Crew Seamanship Manual* or Chapman Piloting

**Conditions:** Task should be performed at any time, onboard one of the Division vessels without prompting or use of a reference. Trainee may be supervised by the captain or boat operator who will maneuver the boat.

**Standards:** In response to the instructor, the trainee must demonstrate, in proper sequence, the correct procedures for securing a boat to a pier using the boats mooring lines.

| <b>Performance Criteria</b>  | <b>Completed (Initials)</b> |
|--|-----------------------------|
| 1. Place forward spring line on dock cleat and secure to the boat. |                             |
| 2. Place stern line on dock cleat and secure to the boat           |                             |
| 3. Place bow line on dock cleat and secure to the boat.            |                             |
| 4. Place aft spring line on dock cleat and secure to the boat.     |                             |

**Instructor:** \_\_\_\_\_ **Date:** \_\_\_\_\_

**Comments**

**TASK BCM-04-03****Assist in Anchoring the Boat**

**NOTE:** This task is mandatory to complete Division BCSM minimum standards.

**References:** *Boat Crew Seamanship Manual*

**Conditions:** Task should be performed at any time, onboard one of the Division vessels without prompting or use of a reference

**Standards:** In response to the instructor, the trainee must demonstrate in proper sequence, the correct procedure for anchoring the boat

| <b>Performance Criteria</b>  | <b>Completed (Initials)</b> |
|--|-----------------------------|
| 1. State the main parts of the anchor.   |                             |
| 2. State the equipment associated with anchoring.  |                             |
| 3. Establish communication with boat operator during the evolution.                                |                             |
| 4. Ascertain amount of scope needed based on depth of water and type of bottom.                    |                             |
| 5. Break out and attach anchor line to anchor.   |                             |
| 6. Lower anchor over side, hand-over-hand at boat operator's command.                              |                             |
| 7. Inform boat operator of direction line is tending at all times as anchor line pays out (veers). |                             |
| 8. Secure anchor line to bitt at boat operator's command.  |                             |

**Instructor:** \_\_\_\_\_ **Date:** \_\_\_\_\_

**Comments**

**TASK BCM-04-04**

**Assist in Weighing the Boat's Anchor**

**NOTE:** This task is mandatory to complete Division BCSM minimum standards.

**References:** *Boat Crew Seamanship Manual*

**Conditions:** Task should be performed at any time, onboard one of the Division vessels without prompting or use of a reference

**Standards:** The trainee must demonstrate, in proper sequence, the procedures for weighing the boat's anchor.

| <b>Performance Criteria</b>   | <b>Completed (Initials)</b> |
|---|-----------------------------|
| 1. Establish communication with the boat operator.  |                             |
| 2. Remove slack from anchor line as boat moves ahead.   |                             |
| 3. Stow anchor line in locker, away from work area, immediately as it's brought aboard.   |                             |
| 4. Signal boat operator when anchor line is at short stay (up and down).  |                             |
| 5. Break anchor free from bottom (if anchor does not break free, trainee makes fast anchor line to bitt while boat operator moves the boat ahead to break it free). |                             |
| 6. Determine if the anchor is clear and clean.  |                             |
| 7. Haul anchor aboard the boat.   |                             |
| 8. Make up and stow all equipment.  |                             |

**Instructor:** \_\_\_\_\_ **Date:** \_\_\_\_\_

**Comments**

**TASK BCM-04-05****Identify the Common Navigation Lights Displayed by Boats**

**References:** *Chapman Piloting*

**Conditions:** Task can be performed at any time, at facilities available to the team and on division vessels.

**Standards:** In response to the instructor, the trainee must, without error, verbally identify the lights listed below.

| <b>Performance Criteria</b>                   | <b>Completed (Initials)</b> |
|---|-----------------------------|
| 1. Identify port side light.                  |                             |
| 2. Identify starboard side light.             |                             |
| 3. Identify stern light.                      |                             |
| 4. Identify anchor light.                     |                             |
| 5. Identify sailboat masthead light.          |                             |
| 6. Identify bow combination lights for boats. |                             |

**Instructor:** \_\_\_\_\_ **Date:** \_\_\_\_\_

**Comments**



**TASK BCM-04-06**

**Identify the Common Sound Signals Used by Rescue and Tour Vessels**

- References:** a. Chapman Piloting  
b. Navigation Rules, International – Inland (USCG)

**Conditions:** Task should be performed at any time, onboard a Division vessel. Trainee must identify the sound signals when presented with examples of the signals. Trainee must accomplish the task without prompting or use of a reference.

**Standards:** In response to the instructor, the trainee must, without error, verbally identify the signals listed below.

| <b>Performance Criteria</b>  | <b>Completed (Initials)</b> |
|--|-----------------------------|
| 1. Identify short blast.   |                             |
| 2. Identify long blast.  |                             |
| 3. Identify danger signal.   |                             |
| 4. Identify the signal made while towing another vessel and approaching the marina mouth or areas that may limit a towing vessels ability to maneuver. |                             |
| 5. Identify whistle signal for sailing vessels during periods of reduced visibility.   |                             |

**Instructor:** \_\_\_\_\_ **Date:** \_\_\_\_\_

**Comments**

**TASK BCM-04-07****Identify and Describe Accepted Maritime Distress Signals**

**References:** a. Chapman Piloting  
b. Navigation Rules, International – Inland (USCG)

**Conditions:** Task should be performed at any time, at facilities available to the team. Trainee must accomplish the task without prompting or use of a reference.

**Standards:** The trainee must, without error, verbally identify the distress signals listed below when given an illustration of each distress signal by the instructor.

| <b>Performance Criteria</b>                              | <b>Completed (Initials)</b> |
|--|-----------------------------|
| 1. Red star shells.                                      |                             |
| 2. Continuous sounding fog horn.                         |                             |
| 3. Orange smoke marker.                                  |                             |
| 4. Dye marker (any color.                                |                             |
| 5. Red parachute flare.                                  |                             |
| 6. Flames on a vessel.                                   |                             |
| 7. Strobe light.   |                             |
| 8. Emergency Position Indicating Radio Beacon (EPIRB)    |                             |
| 9. Orange board with a black square over a black circle. |                             |
| 10. "MAYDAY" radio broadcast.                            |                             |
| 11. Person waving arms.                                  |                             |
| 12. Gun fired at intervals of one minute.                |                             |

**Instructor:** \_\_\_\_\_ **Date:** \_\_\_\_\_

**Comments**

**TASK BCM-04-08**

**Stand a Lookout Watch**

- References:** a. Boat Crew Seamanship Manual  
b. Navigation Rules, International – Inland (USCG)

**Conditions:** Task should be performed at any time, onboard a Division vessel. Trainee must report the range and relative bearing of objects identified by the instructor. Trainee must accomplish the task without prompting or use of a reference.

**Standards:** In response to the instructor, the trainee must, without error, identify objects and state relative bearing and range.

| Performance Criteria  | Completed (Initials) |
|---|----------------------|
| 1. List the different types of buoys and their characteristics used on Great Salt Lake and the purpose of each. |                      |
| 2. Identify three different local fixed aids.   |                      |
| 3. Identify and report the range and relative bearing of four different type vessels common on Great Salt Lake. |                      |
| 4. Identify and report range and relative bearing to deadhead and/or other floating hazard to navigation.       |                      |
| 5. Recognize and report different vessel crossing situations.   |                      |
| 6. Recognize and report different meeting situations.   |                      |
| 7. Recognize and report overtaking situations.  |                      |

**Instructor:** \_\_\_\_\_ **Date:** \_\_\_\_\_

**Comments**

**TASK BCM-04-09**

**Act as a Helmsman and Steer a Compass Course**

**References:** a. Boat Crew Seamanship Manual

**Conditions:** Task should be performed at any time, onboard a Division vessel, while underway and under direct supervision of a Division certified Vessel Operator. Trainee must accomplish the task without prompting or use of a reference

**Standards:** In response to the Vessel Operator, the trainee must respond, without error, to various helm commands. All courses must be maintained to within five degrees of ordered course.

| <b>Performance Criteria</b>  | <b>Completed (Initials)</b> |
|--|-----------------------------|
| 1. Steer on the course ordered by the Vessel Operator.                                     |                             |
| 2. Maintain course to within five degrees of ordered course over a five minute staged run. |                             |
| 3. Alter course (at least 35 degrees) to new course on Vessel Operator's command.          |                             |
| 4. Steady boat up on new course and hold to within five degrees of ordered course.         |                             |
| 5. Monitor engine gauges.  |                             |
| 6. Keep careful watch of surrounding area.   |                             |
| 7. Recognize and report overtaking situations.   |                             |

**Instructor:** \_\_\_\_\_ **Date:** \_\_\_\_\_

**Comments**

**TASK BCM-04-10**

**Get the Boat Away from a Dock**

**NOTE:** This task is mandatory to complete Division BCSM minimum standards.

**References:** Boat Crew Seamanship Manual

**Conditions:** Task should be performed at any time of day or night in light to moderate winds. The boat may be made fast to either side of the dock or another vessel. All mooring lines must be attached before task is begun. Trainee must accomplish the task without prompting or use of a reference.

**Standards:** Trainee must perform the task in accordance with the procedures in the listed steps. Any endangering of personnel or boat will cause the task to be terminated until further training can be accomplished

| <b>Performance Criteria</b>   | <b>Completed (Initials)</b> |
|---|-----------------------------|
| 1. Brief crew on procedure to be used and their duties.             |                             |
| 2. Remove power cord from boat plug and secure to dock as directed. |                             |
| 3. Remove mooring lines from vessel as directed.                    |                             |
| 4. Clear stern of the boat from the boat.                           |                             |
| 5. Clear boat of dock.  |                             |

**Instructor:** \_\_\_\_\_ **Date:** \_\_\_\_\_

**Comments**

**TASK BCM-04-11**

**Moor the Boat to a Dock or other Vessel**

**NOTE:** This task is mandatory to complete Division BCSM minimum standards.

**References:** a. Boat Crew Seamanship Manual  
b. Chapman Piloting

**Conditions:** Task will be performed at any time of the day or night in light to moderate winds. Trainee must accomplish the task without prompting or use of a reference.

**Standards:** Trainee must perform the task in accordance with the procedures in the listed steps. Any endangering of personnel or boat will cause the task to be terminated until further training can be accomplished.

| <b>Performance Criteria</b>   | <b>Completed (Initials)</b> |
|---|-----------------------------|
| 1. Brief crew on procedures to be used and their duties.                                  |                             |
| 2. Secure vessel to dock or vessel.   |                             |
| 3. Check that all vessel lights are off.  |                             |
| 4. Check that engines have been turned off.   |                             |
| 5. Turn off batteries.  |                             |
| 6. Secure power cord to vessel plug and check that shore power and battery charger is on. |                             |

**Instructor:** \_\_\_\_\_ **Date:** \_\_\_\_\_

**Comments**



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## Section E. Communications

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**Introduction** The following are objectives of the Division:

**Demonstrate** the ability to operate a VHF-FM marine band radio.

**Demonstrate** the ability to use the VHF marine band radio to give a position or operations report.

**In this Section** This section contains the following tasks:

| Task Number | Task  | See Page |
|-------------|---|----------|
| BCM-05-01   | Operate a VHF Radio   |          |
| BCM-05-02   | Use the VHF Radio to Give an Operations and Position Report |          |
| BCM-05-03   | Identifying and Operating the LE Radio                      |          |

---

**TASK BCM-05-1**

**Operate a VHF-FM Marine Band Radio**

**NOTE:** This task is mandatory to complete Division BCSM minimum standards.

- References:**
- a. Boat Crew Seamanship Manual
  - b. Great Salt Lake Radiotelephone Handbook

**Conditions:** Task should be performed at any time, onboard one of the Division's vessels. Trainee must accomplish task without prompting or use of a reference.

**Standards:** In response to the instructor, the trainee must, without error, identify the different operating parts of the radio and operate the radio.

| <b>Performance Criteria</b>   | <b>Completed (Initials)</b> |
|---|-----------------------------|
| 1. Identify VHF transceiver and speakers.   |                             |
| 2. Identify breaker (if present) that energizes radio.  |                             |
| 3. Identify power switch and turn radio on.   |                             |
| 4. Identify channel selection switch or buttons for emergency and working frequencies.                            |                             |
| 5. Identify volume controls and adjust volume.  |                             |
| 6. Identify squelch control and adjust to the point where static disappears.                                      |                             |
| 7. Identify microphone and transmitting button and obtain a radio check on appropriate working frequency.         |                             |
| 8. Identify Emergency channel, call channel, Ports ops channel, and <a href="#">GSL SAR (coast guard) channel</a> |                             |

**Instructor:** \_\_\_\_\_ **Date:** \_\_\_\_\_

**Comments**



**TASK BCM-05-2**

**Use the VHF Radio to Give an Operations and Position Report**

- References:**
- a. Boat Crew Seamanship Manual
  - b. Great Salt Lake Radiotelephone Handbook

**Conditions:** Task should be performed at any time, onboard one of the Division's vessels. Message to be sent should be composed by the trainee and the instructor prior to the beginning of the task. Trainee must accomplish task without prompting or use of a reference.

**Standards:** In response to the instructor, the trainee must, without error, send a short operations and position report. Task must be accomplished using proper radio procedures, including phonetic alphabet, in accordance with the above reference.

| <b>Performance Criteria</b>                                    | <b>Completed (Initials)</b> |
|--|-----------------------------|
| 1. Turn on, tune, and set radio to unit's working frequency.   |                             |
| 2. Hail Station using GSL SAR working frequency.               |                             |
| 3. Ensure that channel 16 is being monitored at the same time. |                             |
| 4. Send status of operations and position.                     |                             |
| 5. Sign off using proper conclusion of the message.            |                             |

**Instructor:** \_\_\_\_\_ **Date:** \_\_\_\_\_

**Comments**

**TASK BCM-05-03****Identifying and Operating the LE Radio**

**References:** a. Boat Crew Seamanship Manual

**Conditions:** Task should be performed in fair to moderate weather conditions with a Division vessel.

**Standards:** In the presence of and without assistance from the instructor identify and demonstrate the use of the LE radio.

| <b>Performance Criteria</b>                                     | <b>Completed (Initials)</b> |
|---|-----------------------------|
| 1. Locate the LE radio.   |                             |
| 2. Demonstrate the ability to turn it on and to control volume. |                             |
| 3. Demonstrate the ability to select channels.                  |                             |
| 4. Demonstrate the ability to select zones.                     |                             |
| 5. Identify the key channels for operations on Great Salt Lake. |                             |

**Instructor:** \_\_\_\_\_ **Date:** \_\_\_\_\_

**Comments**



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## Section F. Navigation

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**Introduction** The following are objectives of the Division for operating on Great Salt Lake:

**Demonstrate** the use of a nautical chart.

**Demonstrate** the ability to identify navigation and general landmark symbols on a nautical chart.

**Demonstrate** the ability to plan a voyage by laying down a track line across safe water and through marked channels.

**Demonstrate** the ability to take a fix and plot a position on a chart.

**Demonstrate** the ability to calculate actual speed of vessel, determine amount of water beneath keel, and recommend adjustments to vessel's course and speed to match voyage plan.

**In this Section** This section contains the following tasks:

| Task Number | Task   | See Page |
|-------------|--|----------|
| BCM-06-01   | <a href="#">Identify the Symbols, Abbreviations and Basic Parts of a Nautical Chart</a>                                  |          |
| BCM-06-02   | Identify Common Aids to Navigation Used for Inland and Coastal Piloting  |          |
| BCM-06-03   | Identify Local Landmarks on a Map or Nautical Chart for Your AOR   |          |
| BCM-06-04   | Plot a Position Using Latitude and Longitude   |          |
| BCM-06-05   | Plot a Magnetic Course on a Map or Nautical Chart for Your AOR   |          |
| BCM-06-06   | Measure Distance on a Map or Nautical Chart for Your AOR   |          |
| BCM-06-07   | Compute Time, Speed, and Distance  |          |
| BCM-06-08   | Determine the Depth of the Water Using a Fathometer (fishfinder)   |          |
| BCM-06-09   | Use Radar to Identify Objects  |          |
| BCM-06-10   | Determine the Range and Bearing to Objects Using Radar   |          |
| BCM-06-11   | Use Radar to Obtain and Interpret Relative Bearings and Ranges to Moving Target to Determine if Risk of Collision Exists |          |
| BCM-06-12   | Obtain a Fix Using GPS   |          |
| BCM-06-13   | Operate the Electronic Charting System   |          |

|           |  |  |
|-----------|--|--|
| BCM-06-14 | Demonstrate the two most common search patterns used by the Division |  |
|-----------|--|--|

**TASK BCM-06-01****Identify the Symbols, Abbreviations and Basic Parts of a Nautical Chart**

**References:** a. Boat Crew Seamanship Manual, Chapman’s Piloting

**Conditions:** Task should be performed at any time, at facilities available to the team, using a nautical chart of the local area and any coastal chart. Trainee must accomplish task without prompting or use of a reference.

**Standards:** In response to the instructor, the trainee must, without error, identify the different parts of a nautical chart listed in the steps below.

| <b>Performance Criteria</b>  | <b>Completed (Initials)</b> |
|--|-----------------------------|
| 1. Identify the longitude scale.   |                             |
| 2. Identify the latitude scale.  |                             |
| 3. Identify horizontal and vertical clearances of overhead bridges and cables.         |                             |
| 4. Identify one nautical mile using the latitude scale.                                |                             |
| 5. Identify sounding numbers (feet/fathoms).   |                             |
| 6. Identify depth curves (contours).   |                             |
| 7. Identify the general information block.   |                             |
| 8. Identify the scale of a chart.  |                             |
| 9. Identify the latitude and longitude in minutes or seconds.                          |                             |
| 10. Identify the different colors and stated meaning of each.                          |                             |
| 11. Identify miles and yards scale.  |                             |
| 12. Identify aids to navigation.   |                             |
| 13. Identify the symbol for prominent local landmarks.                                 |                             |
| 14. Identify the compass rose and indicate the purpose of each of its prominent parts. |                             |
| 15. Identify the symbol for a wreck, rock, or other submerged object.                  |                             |
| 16. Identify the Datum of the chart and explain what the Datum stands for.             |                             |

**Instructor:** \_\_\_\_\_ **Date:** \_\_\_\_\_

**Comments**

**TASK BCM-06-02**

**Identify Common Aids to Navigation Used on the Great Salt Lake**

- References:**
- a. Boat Crew Seamanship Manual
  - b. Nautical Chart Symbols, Abbreviations, and Terms
  - b. The American Practical Navigator

**Conditions:** Task should be performed while underway, using a nautical chart of the Great Salt Lake. Trainee must accomplish task without prompting or use of a reference.

**Standards:** In response to the instructor, the trainee must, without error, identify the stated aids to navigation and their corresponding chart symbols.

| <b>Performance Criteria</b>   | <b>Completed (Initials)</b> |
|---|-----------------------------|
| 1. Identify a nun buoy.   |                             |
| 2. Identify a can buoy.   |                             |
| 3. Identify a danger buoy.  |                             |
| 4. Identify a no wake buoy.   |                             |
| 5. While underway, identify by type, number, and characteristic the primary aids used for entering and exiting the Great Salt Lake Marina area. |                             |

**Instructor:** \_\_\_\_\_ **Date:** \_\_\_\_\_

**Comments**

**TASK BCM-06-03**

**Identify Local Landmarks on a Map or Nautical Chart for Your AOR**

- References:** a. Boat Crew Seamanship Manual  
b. Nautical Chart, Symbols, Abbreviations, and Terms

**Conditions:** Task should be performed at any time, while underway, using a nautical chart of the Great Salt Lake. Trainee must accomplish task without prompting or use of a reference  
Task should be performed at any time, while underway, using a map for your AOR.  
Trainee must accomplish task without prompting or use of a reference.

**Standards:** In response to the instructor pointing out aids to navigation and prominent landmarks, the trainee must, without error, correctly identify on the chart those objects pointed out.

| <b>Performance Criteria</b>  | <b>Completed (Initials)</b> |
|--|-----------------------------|
| 1. Identify all marinas on the Great Salt Lake.  |                             |
| 2. Identify the major reefs on the lake and their location.                                    |                             |
| 3. Identify the two spits on the lake.   |                             |
| 4. Identify the railroad causeway and Davis causeway.  |                             |
| 5. Identify all prominent antennas and towers used as navigational landmarks on the lake.      |                             |
| 6. Identify all prominent buildings and structures used as navigational landmarks on the lake. |                             |
| 7. Identify all prominent landmarks in the area.   |                             |
| 8. Identify all lights around the lake that can be used as navigational landmarks.             |                             |

**Instructor:** \_\_\_\_\_ **Date:** \_\_\_\_\_

**Comments**

**TASK BCM-06-04****Plot a Position Using Latitude and Longitude**

**References:** a. Boat Crew Seamanship Manual  
b. The American Practical Navigator

**Conditions:** Trainee shall be given a nautical chart and five sets of coordinates expressed in longitude and latitude. Trainee must plot the five coordinates without prompting or use of a reference.

**Standards:** The trainee must, without error, plot the latitude and longitude coordinates within five minutes. Positions must be within 100 yards.

| <b>Performance Criteria</b>   | <b>Completed (Initials)</b> |
|---|-----------------------------|
| 1. Plot five different positions on the map or chart within five minutes. |                             |

**Instructor:** \_\_\_\_\_ **Date:** \_\_\_\_\_

**Comments**



**TASK BCM-06-05**

**Plot a Magnetic Course on a Nautical Chart**

**References:** a. Boat Crew Seamanship Manual  
b. The American Practical Navigator

**Conditions:** Trainee shall be given a nautical chart, the five positions plotted in TASK BCM-06-04, and five magnetic bearings (one bearing for each position). Trainee must accomplish task without prompting or use of a reference.

**Standards:** The trainee must, without error, plot the courses indicated within five minutes. Courses must be accurate to within three degrees.

| <b>Performance Criteria</b>                         | <b>Completed (Initials)</b> |
|---|-----------------------------|
| 1. Plot five different courses on the map or chart. |                             |

**Instructor:** \_\_\_\_\_ **Date:** \_\_\_\_\_

**Comments**

**TASK BCM-06-06**

**Measure Distance on a Map or Nautical Chart for Your AOR**

**NOTE:** This task is mandatory to complete Division BCSM minimum standards.

**References:** a. Boat Crew Seamanship Manual  
b. The American Practical Navigator

**Conditions:** Trainee shall be given a nautical chart and the set of five positions plotted in task BCM-06-04-ANY on the chart (designate A through E). All distances must be measured using nautical miles or yards as indicated by the task steps. Trainee must accomplish task without prompting or use of a reference.

**Standards:** The trainee must, without error, measure the distances indicated in the task's steps within three minutes. Distance must be accurate to within 200 yards.

| <b>Performance Criteria</b>                                   | <b>Completed (Initials)</b> |
|---|-----------------------------|
| 1. The distance from position A to B is _____ nautical miles. |                             |
| 2. The distance from position B to C is _____ yards.          |                             |
| 3. The distance from position C to D is _____ yards.          |                             |
| 4. The distance from position D to E is _____ nautical miles. |                             |
| 5. The distance from position E to A is _____ nautical miles. |                             |

**Instructor:** \_\_\_\_\_ **Date:** \_\_\_\_\_

**Comments**

**TASK BCM-06-07****Compute Time, Speed, and Distance****NOTE:** This task is mandatory to complete Division BCSM minimum standards.

**References:** a. Boat Crew Seamanship Manual  
 b. The American Practical Navigator

**Conditions:** Trainee shall be given a nautical chart, nautical slide rule, and the positions and distance calculated in TASK BCM-06-06. All answers should be given to the nearest tenth of an hour, knot. Or nautical mile as indicated in the step. Trainee must accomplish task without prompting or use of a reference.

**Standards:** The trainee must, without error, calculate the answer indicated for each step within five minutes.

| Performance Criteria  | Completed (Initials) |
|---|----------------------|
| 1. State the 3-minute and 6-minute rules.   |                      |
| 2. Calculate the time, in hours, it would take a boat traveling at a speed of 8 knots to get from point A to point B. |                      |
| 3. Calculate the speed, in knots, it would take a boat to get from point B to point C in 30 minutes.                  |                      |
| 4. Calculate the speed, in knots, it would take a boat to get from point E to point C in 2 hours.                     |                      |
| 5. Calculate the speed, in knots, it would take a boat to travel 200 yards in 3 minutes.                              |                      |
| 6. Calculate the distance, in nautical miles, a boat would travel at a speed of 12 knots for 2.4 hours.               |                      |

**Instructor:** \_\_\_\_\_ **Date:** \_\_\_\_\_

**Comments**

**TASK BCM-06-08**

**Determine the Depth of Water using the Depth Sounder**

**References:** a. Boat Crew Seamanship Manual

**Conditions:** Task should be performed at any time, while underway, onboard one of the rescue vessels. Demonstration should be performed in an area known to have accurate soundings. The steps should be accomplished in water less than 30 feet. Trainee must accomplish task without prompting or use of a reference.

**Standards:** In response to the instructor, the trainee must, without error, identify different parts of the depth sounder and various functions.

| <b>Performance Criteria</b>   | <b>Completed (Initials)</b> |
|---|-----------------------------|
| 1. Identify depth sounder.  |                             |
| 2. Turn on depth sounder.   |                             |
| 3. Adjust illumination from day to night and back to day.   |                             |
| 4. Demonstrate entering "Offset Setup". Set appropriate depth.                                      |                             |
| 5. Adjust "Display Contrast".   |                             |
| 6. State the depth in three different positions. Instructor should fix position and verify reading. |                             |

**Instructor:** \_\_\_\_\_ **Date:** \_\_\_\_\_

**Comments**

**TASK BCM-06-09**

**Use Radar to Identify Objects**

- References:**
- a. Boat Crew Seamanship Manual
  - b. The American Practical Navigator
  - c. The Radar Operator’s Handbook

**Conditions:** Task should be performed at any time, while underway, onboard a Division vessel. All the objects listed must be identified using the installed radar and either the Great Salt Lake Chart or Great Salt Lake Bathymetric map, and then verified by sight. Trainee must accomplish task without prompting or use of a reference.

**Standards:** In response to the instructor, the trainee must, without error, correctly demonstrate the steps in the task.

| <b>Performance Criteria</b>   | <b>Completed (Initials)</b> |
|---|-----------------------------|
| 1. Turn radar power switch on.                                      |                             |
| 2. Tune radar for maximum target return.                            |                             |
| 3. State the use of “gain”, “sea clutter” and “rain clutter”.       |                             |
| 4. Use “gain”, “sea clutter” and “rain clutter” as necessary.       |                             |
| 5. Recognize and visually verify two different prominent landmarks. |                             |
| 6. Recognize and visually verify two different aids to navigation.  |                             |
| 7. Recognize and visually verify two different moving targets.      |                             |

**Instructor:** \_\_\_\_\_ **Date:** \_\_\_\_\_

**Comments**

**TASK BCM-06-10**

**Determine the Range and Bearing to Objects Using Radar**

- References:**
- a. Boat Crew Seamanship Manual
  - b. The American Practical Navigator
  - c. Radar Operator’s Handbook

**Conditions:** Task should be performed at any time, while underway, onboard a Division vessel. Weather should be calm to moderate. *All of the steps must be accomplished using the installed radar and the Great Salt Lake chart or Great Salt Lake bathymetric map, and then verifying by sight.* Trainee must accomplish task without prompting or use of a reference.

**Standards:** In response to the instructor, the trainee must, without error, identify the objects and correctly utilize the VRM and EBL functions to complete task two and three.

| <b>Performance Criteria</b>  | <b>Completed (Initials)</b> |
|--|-----------------------------|
| 1. Turn radar on and tune for maximum target return.               |                             |
| 2. Report the ranges of three different objects.                   |                             |
| 3. Report the lines of position (LOPs) to three different objects. |                             |

**Instructor:** \_\_\_\_\_ **Date:** \_\_\_\_\_

**Comments**

**TASK BCM-06-11**

**Use Radar to Obtain and Interpret Relative Bearings and Ranges to a Moving Target to Determine if Risk of Collision Exists.**

- References:**
- a. Knight’s Modern Seamanship
  - b. Navigation Rules International-Inland
  - c. Radar Operator’s Handbook
  - d. The American Practical Sailor

**Conditions:** Task should be performed at any time, while underway, onboard a Division vessel. Weather should be calm to moderate. All of the steps must be accomplished using the installed radar and verified by sight. Trainee must accomplish task without prompting or use of a reference.

**Standards:** Trainee must be able to determine the relative motion of the target within a “reasonable” amount of time and recommend an adjustment to the boat’s course to a risk of collision.

| <b>Performance Criteria</b>   | <b>Completed (Initials)</b> |
|---|-----------------------------|
| 1. Identify a moving target on the boat’s radar.  |                             |
| 2. Use the VRM and EBL functions to establish the target range and relative bearing.  |                             |
| 3. Determine if the target is in a meeting situation or would be passing ahead or astern of the rescue vessel by monitoring the range and relative bearing. |                             |
| 4. Recommend course alteration, if necessary, to avoid the other vessel.  |                             |
| 5. State the meaning of “Constant Bearing, Decreasing Range”.   |                             |

**Instructor:** \_\_\_\_\_ **Date:** \_\_\_\_\_

**Comments**

**TASK BCM-06-12****Obtain a Fix Using GPS/DGPS**

- References:**
- a. Boat Crew Seamanship Manual
  - b. The American Practical Navigator
  - c. GPS Operator's Handbook

**Conditions:** Task should be performed at any time, while underway, onboard a Division vessel.

**Standards:** In response to the instructor, the trainee must correctly demonstrate the use of a GPS/DGPS receiver.

| <b>Performance Criteria</b>   | <b>Completed (Initials)</b> |
|---|-----------------------------|
| 1. Energize set and verify set is receiving a signal.                   |                             |
| 2. Read and report latitude and longitude position to instructor.       |                             |
| 3. Plot latitude and longitude position on chart.                       |                             |
| 4. Demonstrate using "Sailplan" and "Reverse Sailplan" (as applicable). |                             |

**Instructor:** \_\_\_\_\_ **Date:** \_\_\_\_\_

**Comments**



**TASK BCM-06-13**

**Operate the Electronic Charting System**

**References:** a. Electronic Charting System Operation Manual

**Conditions:** Task should be performed at any time, at facilities available to the team.

**Standards:** Trainee must either demonstrate knowledge or perform each task to the minimum standards included in each performance step.

| <b>Performance Criteria</b>  | <b>Completed (Initials)</b> |
|--|-----------------------------|
| 1. Describe the purpose of electronic charting.  |                             |
| 2. State the specific features of the electronic charting system.                                      |                             |
| 3. Describe the information provided in the cursor data box.   |                             |
| 4. Describe the basic purpose of the soft keys, dedicated keys, and trackpad.                          |                             |
| 5. Perform the basic procedures for changing the chart scale and displaying information about objects. |                             |
| 6. Complete procedure for using quick routes.  |                             |

**Instructor:** \_\_\_\_\_ **Date:** \_\_\_\_\_

**Comments**

**TASK BCM-06-14**

**Demonstrate the Two Most Common Search Patterns Used by the Division**

**NOTE:** This task is mandatory to complete Division BCSM minimum standards.

**References:** a. Boat Crew Seamanship Manual

**Conditions:** Trainee shall be given a map or nautical chart. The trainee must demonstrate knowledge of the two most common search patterns used in SAR and recovery missions. The trainee shall be given four scenarios to plot out.

**Standards:** The trainee must be able to plot an effective SAR/Recover plan based on the scenarios given..

| <b>Performance Criteria</b>   | <b>Completed (Initials)</b> |
|---|-----------------------------|
| 1. Based on the scenarios given, plot an initial datum on a map or chart.                                 |                             |
| 2. Based on the scenarios given, plot a safe path to the datum.   |                             |
| 3. Based on the scenarios given, plot a search pattern including proper spacing for the conditions given. |                             |

**Instructor:** \_\_\_\_\_ **Date:** \_\_\_\_\_

## Comments



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## Section G. Mission-Oriented Operations

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**Introduction** The following are objectives of the Division:

**Demonstrate** actions to be taken during a man overboard emergency.

**Demonstrate** procedures to signal an emergency.

**Demonstrate** procedures for towing astern and alongside.

**Demonstrate** procedures for dewatering another vessel.

**Demonstrate** procedures to combat a fire onboard own vessel or another vessel.

**In this Section** This section contains the following tasks:

| Task Number | Task   | See Page |
|-------------|--|----------|
| BCM-07-01   | Participate in a Man Overboard Evolution as a Pointer  |          |
| BCM-07-02   | Participate in a Man Overboard Evolution as a Recovery/Pickup Person   |          |
| BCM-07-03   | Participate in a Man Overboard Evolution as a Surface Swimmer  |          |
| BCM-07-04   | <a href="#">Stokes Litter</a>  |          |
| BCM-07-05   | Recover a Person-in-the-Water with the Stokes Litter   |          |
| BCM-07-06   | Bend a Heaving Line to a Bridle and Pass the Heaving Line to Another Boat.   |          |
| BCM-07-07   | Pass a Towline to Another Boat   |          |
| BCM-07-08   | Secure an Alongside Tow  |          |
| BCM-07-09   | Prepare the Portable Pump for Operation, Start and Obtain Suction  |          |
| BCM-07-10   | Identify the Different Classes of Fires, State the Fuel Sources, and State the Extinguishing Agents for Each Class of Fire |          |
| BCM-07-11   | Locate and Identify the Fire Fighting Equipment Carried Onboard Division Vessels   |          |
| BCM-07-12   | Demonstrate Knowledge of the Operation of a Dry Chemical Fire Extinguisher   |          |
| BCM-07-13   | Demonstrate the Appropriate Response to the Basic Engineering Casualty Control Exercises (BECCE)                           |          |

|           |                                       |  |
|-----------|---------------------------------------|--|
| BCM-07-14 | Care and Maintenance of a Vessel      |  |
| BCM-07-15 | Engine System and Features            |  |
| BCM-07-16 | Equipment Systems and Vessel Features |  |
| BCM-07-17 | Launching A Vessel (Two Person)       |  |
| BCM-07-18 | Retrieving a Vessel (Two Person)      |  |

**TASK BCM-07-01**

**Participate in a Man Overboard Evolution as a Pointer**

**NOTE:** This task is mandatory to complete Division BCSM minimum standards.

**References:** a. Boat Crew Seamanship Manual

**Conditions:** Task should be performed during the day and at night, while underway onboard a Division vessel. Where possible, this task should be performed with an actual person in the water. When not possible due to weather conditions or water temperature, a life-like dummy, (180 pounds dry) or Oscar must be used. Trainee must accomplish task without prompting or use of a reference.

**Standards:** In response to the instructor, the trainee must move to his/her correct Station and perform the task steps without hesitation.

| <b>Performance Criteria</b>   | <b>Completed (Initials)</b> |
|---|-----------------------------|
| 1. Keep PIW in sight continuously and sound alarm.                              |                             |
| 2. Proceed immediately to assigned position.                                    |                             |
| 3. Keep DVO continuously informed of PIW position both vocally and by pointing. |                             |
| 4. Upon command, move to assigned position and assist with pickup of PIW.       |                             |

**Instructor:** \_\_\_\_\_ **Date:** \_\_\_\_\_

**Comments**

**TASK BCM-07-02**

**Participate in a Man Overboard Evolution as a Recovery/Pickup Person**

**NOTE:** This task is mandatory to complete Division BCSM minimum standards.

**References:** a. Boat Crew Seamanship Manual

**Conditions:** Task should be performed during the day and at night, while underway a Division vessel. Where possible, this task should be performed with an actual person in the water. When not possible due to weather conditions or water temperature, a life-like dummy, (180 pounds dry) or Oscar must be used. Trainee must accomplish task without prompting or use of a reference.

**Standards:** In response to the instructor, the trainee must move to his/her correct Station and perform the task steps without hesitation.

| <b>Performance Criteria</b>   | <b>Completed (Initials)</b> |
|---|-----------------------------|
| 6. Proceed immediately to assigned position ( <i>should be near swim platform on Rescue One or near stern on Rescue Four</i> ). |                             |
| 7. Prepare a rescue heaving line, if PIW is conscious.  |                             |
| 8. On command, throw a rescue heaving line to PIW, if PIW is conscious.   |                             |
| 9. Pull PIW alongside the boat, if PIW is conscious.  |                             |
| 10. Pull the PIW aboard using two persons.  |                             |

**Instructor:** \_\_\_\_\_ **Date:** \_\_\_\_\_

**Comments**

**TASK BCM-07-03**

**Participate in a Man Overboard Evolution as a Surface Swimmer**

- References:**
- a. Boat Crew Seamanship Manual
  - b. Rescue and Survival Systems Manual

**Conditions:** Task should be performed during daylight hours in calm sea condition, while underway onboard a Division. This task must be done with a life-like dummy, (180 pounds dry) Oscar in the water. Trainee must accomplish task without prompting or use of a reference.

**Standards:** In response to the instructor, the trainee must perform the task steps without hesitation.

**NOTE:** The intent of this task is to ensure crew member can remove another person from the water. Task may need to be modified, depending upon equipment carried on the rescue vessel.

| <b>Performance Criteria</b>  | <b>Completed (Initials)</b> |
|--|-----------------------------|
| 1. State the surface swimmer Policy.   |                             |
| 2. Don necessary rescue equipment/PPE.   |                             |
| 3. On command, enter the water feet first.   |                             |
| 4. Hold PIW in cross shoulder position, while pulled back to boat by tender.           |                             |
| 5. Place PIW in stokes litter (only if person is seriously injured and seas are calm). |                             |
| 6. Assist while PIW hauled onboard   |                             |

**Instructor:** \_\_\_\_\_ **Date:** \_\_\_\_\_

**Comments**

**TASK BCM-07-04****Stokes Litter**

**References:** a. Boat Crew Seamanship Manual

**Conditions:** Task should be performed at any time at facilities available to the team.

**Standards:** Trainee must either demonstrate knowledge or perform each task to the minimum standards included in each performance step.

| <b>Performance Criteria</b>  | <b>Completed (Initials)</b> |
|--|-----------------------------|
| 1. Review stokes litter guidelines provided in the Rescue and Survival Systems Manual. |                             |
| 2. State or demonstrate procedures necessary for securing a patient in the litter.     |                             |
| 3. State the flotation kit function and adjustments.                                   |                             |

**Instructor:** \_\_\_\_\_ **Date:** \_\_\_\_\_

**Comments**



**TASK BCM-07-05**

**Recover a Person-in-the-Water with the Stokes Litter**

**References:** a. Boat Crew Seamanship Manual

**Conditions:** Task should be performed during the daylight hours, while underway onboard a Division vessel. This task must be done with a life-like dummy, (180 pounds dry), Oscar or team member in the water. Trainee must accomplish task without prompting or use of a reference.

**Standards:** In response to the instructor, the trainee must perform the task steps without hesitation. Review the guidelines outlined in the Boat Crew Seamanship Manual as well as the Rescue and Survival Systems Manual.

**NOTE:** The intent of this task is to ensure crew member can remove another person from the water. Task may need to be modified, depending upon which rescue vessel is being used.

| <b>Performance Criteria</b>   | <b>Completed (Initials)</b> |
|---|-----------------------------|
| 1. Make ready stokes litter tending lines and patient securing straps.                |                             |
| 2. Place stokes litter in water and tend with assistance of another crew member.      |                             |
| 3. Place patient or Oscar in litter and attach all straps in correct order.           |                             |
| 4. Assist while patient is hauled onboard (head first).                               |                             |
| 5. Check the patient to assess their physical condition and give first-aid as needed. |                             |
| 6. Assist in carrying stokes litter with patient from the boat to the shore.          |                             |

**Instructor:** \_\_\_\_\_ **Date:** \_\_\_\_\_

**Comments**

**TASK BCM-07-06**

**Bend a Heaving Line to a Towline and Pass the Heaving Line to another Boat**

**References:** a. Boat Crew Seamanship Manual

**Conditions:** Task should be performed at any time onboard a Division vessel. Heaving line used should be at least 75 feet long. The target boat must be at least 40 feet away from the boat at the time of the toss. Trainee must accomplish task without prompting or use of a reference.

**Standards:** In response to the instructor, the trainee must pass the line to the target boat, in accordance with the steps listed below, on two out of three throws. The heaving line should pass over the target boat, but not hit it.

| <b>Performance Criteria</b>  | <b>Completed (Initials)</b> |
|--|-----------------------------|
| 1. Once on scene, assess situation, develop tow plan based on this scenario, brief crew and towed vessel passengers. |                             |
| 2. Passenger briefing to include wearing PFDs, establish signals or radio contact if problem.                        |                             |
| 3. Wet down heaving line to relieve stiffness.   |                             |
| 4. Bend one heaving line onto the towline using a bowline.   |                             |
| 5. Make heaving line into tight coils.   |                             |
| 6. Place two-thirds of coil in casting hand.   |                             |
| 7. Instruct people on other boat to take cover.  |                             |
| 8. On command, throw heaving line over the target boat and tend.   |                             |
| 9. Maintain a tow watch checking passengers, vessels and rigging.  |                             |

**Instructor:** \_\_\_\_\_ **Date:** \_\_\_\_\_

**Comments**

**TASK BCM-07-07****Pass a Towline to another Boat****NOTE: This task is mandatory to complete Division BCSM minimum standards.****References:** a. Boat Crew Seamanship Manual**Conditions:** Task should be performed at any time, onboard a Division vessel, while taking another boat in tow. Trainee must accomplish task without prompting or use of a reference.**Standards:** In response to the instructor, the trainee must, in accordance with the procedures listed below, perform all line handling related to passing a tow line.

| <b>Performance Criteria</b>  | <b>Completed (Initials)</b> |
|--|-----------------------------|
| 1. Once on scene, assess situation, develop a tow plan based on this scenario, brief crew and towed vessel passengers. |                             |
| 2. Passenger briefing to include wearing PFDs, establish signals or radio contact if problem.                          |                             |
| 3. Pass towline to the boat to be towed.   |                             |
| 4. Tend towline while people on other vessel make attachment.  |                             |
| 5. Place a proper working turn around the towing bitt and pay out the line, as directed.                               |                             |
| 6. On command, secure towline to the towing bitt.  |                             |
| 7. On command, break towing bitt down to a working turn, pay towline out.  |                             |
| 8. On command, make up bitt.   |                             |
| 9. Maintain a tow watch checking passengers, vessels and rigging.  |                             |

**Instructor:** \_\_\_\_\_ **Date:** \_\_\_\_\_**Comments**

**TASK BCM-07-08**

**Connect a Towline to a Trailer Eyebolt Using a Shackle or Skiff Hook**

**NOTE:** This task is mandatory to complete Division BCSM minimum standards.

**References:** a. Boat Crew Seamanship Manual

**Conditions:** Task should be performed at any time, onboard a Division vessel, while taking another boat in tow. Trainee must accomplish task without prompting or use of a reference.

**Standards:** In response to the instructor, the trainee must in accordance with the procedures listed below, perform all line handling related to connecting a towline to a boat’s trailer eyebolt.

| <b>Performance Criteria</b>  | <b>Completed (Initials)</b> |
|--|-----------------------------|
| 1. Once on scene, assess situation, develop tow plan based on this scenario, brief crew and towed vessel passengers. |                             |
| 2. Passenger briefing to include wearing PFDs, establish signals or radio contact if problem.                        |                             |
| 3. Prepare towing line with skiff hook assembly or shackle attached.   |                             |
| 4. Connect towline to eyebolt using skiff hook assembly or shackle, while disabled boat is off either quarter.       |                             |
| 5. Tend towline from towing boat with proper working-turn around tow bitt.   |                             |
| 6. On command, secure towline to the tow bitt.   |                             |
| 7. On command, break down the tow bitt to a working turn, and pay out towline.                                       |                             |
| 8. On command, make up tow bitt.   |                             |
| 9. Maintain a tow watch checking passengers, vessels and rigging.  |                             |

**Instructor:** \_\_\_\_\_ **Date:** \_\_\_\_\_

**Comments**

**TASK BCM-07-09****Secure an Alongside Tow**

**NOTE:** This task is mandatory to complete Division BCSM minimum standards.

**References:** a. Boat Crew Seamanship Manual

**Conditions:** Task should be performed at any time, onboard a Division vessel. Trainee must accomplish task without prompting or use of a reference.

**Standards:** In response to the instructor, the trainee must without prompting, correctly tend and secure the towline and side lines in accordance with the procedures listed below.

| <b>Performance Criteria</b>   | <b>Completed (Initials)</b> |
|---|-----------------------------|
| 1. Once on scene, assess situation, develop tow plan based on this scenario, brief crew and towed passengers    |                             |
| 2. Passenger briefing to include wearing PFDs, establish signals, or radio contact if problem.                  |                             |
| 3. Rig fenders and set up lines on the side where tow will be secured.  |                             |
| 4. If using stern towline, upon command, walk towline forward and fake out excess line on deck, out of the way. |                             |
| 5. If using stern towline, upon command, lead tow line forward and use as the bow line.                         |                             |
| 6. Secure other lines as directed by the DVO.   |                             |
| 7. Explain the purpose of each line (bow, stern, towing strap, back spring).                                    |                             |
| 8. Maintain a tow watch checking passengers, vessels and rigging.   |                             |

**Instructor:** \_\_\_\_\_ **Date:** \_\_\_\_\_

**Comments**

**TASK BCM-07-10**

**Prepare the Portable Pump for Operation, Start, and Obtain Suction**

**References:** a. Dewatering Pump Manufacturer’s Instructions  
b. Rescue and Survival Systems Manual

**Conditions:** Task should be performed at any time, ashore. Trainee must accomplish task without prompting or use of a reference.

**Standards:** In response to the instructor, the trainee must, without error, prepare and start the pump in accordance with the procedures listed below. The pump must take suction in order for this task to be considered successful.

| <b>Performance Criteria</b>                                    | <b>Completed (Initials)</b> |
|--|-----------------------------|
| 1. Move pump down a gangway to any selected dock.              |                             |
| 2. Check oil. Fill if needed.                                  |                             |
| 3. Connect and unroll discharge hose.                          |                             |
| 4. Connect suction hose.                                       |                             |
| 5. Place suction hose strainer in water.                       |                             |
| 6. Prime pump  |                             |
| 7. Start pump engine within six pulls                          |                             |
| 8. Take suction and discharge water from pump                  |                             |
| 9. Drain, flush out with freshwater, clean up and secure pump. |                             |

**Instructor:** \_\_\_\_\_ **Date:** \_\_\_\_\_

**Comments**

**TASK BCM-07-11**

**Identify the Different Classes of Fires, State the Fuel Sources, and State the Extinguishing Agents for Each Class of Fire**

**NOTE:** This task is mandatory to complete Division BCSM minimum standards.

**References:** a. Boat Crew Seamanship Manual

**Conditions:** Task should be performed at any time ashore or afloat. Trainee must accomplish task without prompting or use of a reference.

**Standards:** In response to the instructor, the trainee must, without error state the answers called for in the steps below.

| <b>Performance Criteria</b>  | <b>Completed (Initials)</b> |
|--|-----------------------------|
| 1. State most common fuels for Class A fires, and state the primary extinguishing agent for a Class A fire.  |                             |
| 2. State most common fuels for Class B fires, and state the primary extinguishing agent for a Class B fire.  |                             |
| 3. State most common source for Class C fires, and state the primary extinguishing agent for a Class C fire. |                             |
| 4. State most common fuels for Class D fires, and state the primary agents for containing a Class D fire.    |                             |

**Instructor:** \_\_\_\_\_ **Date:** \_\_\_\_\_

**Comments**

**TASK BCM-07-12**

**Locate and Identify the Fire Fighting Equipment Carried Onboard  
Division Vessels**

**References:** a. Boat Equipment Checklist

**Conditions:** Task should be performed at any time, onboard the boat being qualified on. Only those items carried on the boat need to be identified. Trainee must accomplish task without prompting or use of a reference.

**Standards:** In response to the instructor, the trainee must identify all of the firefighting equipment carried on the boat, and state the purpose for each.

| <b>Performance Criteria</b>   | <b>Completed (Initials)</b> |
|---|-----------------------------|
| 1. Locate and identify the dry chemical extinguisher(s) carried aboard the rescue vessel. |                             |
| 2. State the purpose of the dry chemical extinguisher(s).                                 |                             |
| 3. Locate the expiration date on the extinguisher(s).                                     |                             |
| 4. Identify and explain the removal of the locking pin from the trigger assembly.         |                             |
| 5. Approach fire from the windward side.  |                             |
| 6. Remain at least 8 feet from the fire.  |                             |
| 7. Demonstrate the PASS method for extinguishing a fire.                                  |                             |

**Instructor:** \_\_\_\_\_ **Date:** \_\_\_\_\_

**Comments**



**TASK BCM-07-13**

**Demonstrate an Appropriate Response to the Basic Engineering Casualty Control Exercises (BECE)**

**References:** a. Boat Crew Seamanship Manual  
b. Manufacturers Operator’s Manual and Technical Publication

**Conditions:** Task should be performed at any time onboard a Division vessel, without the use of any references or prompting.

**Standards:** In response to the instructor, the trainee must, without error, demonstrate the steps taken for each of the BECEs listed, as stated in the above reference.

| <b>Performance Criteria</b>  | <b>Completed (Initials)</b> |
|--|-----------------------------|
| 1. Engine fire.  |                             |
| 2. Loss of steering.   |                             |
| 3. Accidental grounding.   |                             |
| 4. Collision with submerged object.  |                             |
| 5. Engine high water temperature.  |                             |
| 6. No cooling water flowing from nipple on outboard engine                             |                             |
| 7. Loss of engine oil pressure.  |                             |
| 8. Loss of engine RPM  |                             |
| 9. General starting difficulties, including engine not starting and emergency starting |                             |
| 10. Propeller damage and excessive cavitation.   |                             |
| 11. Immersed outboard  |                             |
| 12. Loss of electrical power   |                             |

**Instructor:** \_\_\_\_\_ **Date:** \_\_\_\_\_

**Comments**

**TASK BCM-07-14****Care and Maintenance of a Vessel****NOTE: This task is mandatory to complete Division BCSM minimum standards.**

- References:**
- a. Boat Crew Seamanship Manual
  - b. Division's Guide to Care and Maintenance of Equipment

**Conditions:** Task should be performed onboard a Division vessel.

**Standards:** In the presence of and without assistance from the instructor, properly describe and demonstrate how to perform the daily care and maintenance of a vessel.

| <b>Performance Criteria</b>  | <b>Completed (Initials)</b> |
|--|-----------------------------|
| 1. Read and be familiar with the owner's manual for a vessel and its associated equipment.   |                             |
| 2. Read and be familiar with the owner's manual for a vessel's motor(s).   |                             |
| 3. Read and be familiar with the Division's Guide to Care and Maintenance of Vessels.  |                             |
| 4. Describe the process and reasons for frequent hull and engine cleaning and waxing.  |                             |
| 5. Describe what should be done prior to each use of the vessel as outlined in the Division's Guide to Care and Maintenance of Vessels.    |                             |
| 6. Describe what should be done after each use of the vessel as outlined in the Division's Guide to Care and Maintenance of Vessels.       |                             |
| 7. Describe the bearing buddy greasing procedures for axles on a boat trailer.   |                             |
| 8. Describe the two engine alarms that could sound and the procedures to follow when an alarm has gone off.                                |                             |
| 9. Describe the Boat Shop's role in vessel maintenance and identify the reasons for filling out a complete job/work request with the shop. |                             |
| 10. State the procedures that should be followed if a vessel is damaged or there is an equipment failure.                                  |                             |
| 11. Describe the importance of maintaining a vessel operation and maintenance log.   |                             |

**Instructor:** \_\_\_\_\_ **Date:** \_\_\_\_\_

**Comments**

**TASK BCM-07-15**

**Engine Systems and Features**

**NOTE:** This task is mandatory to complete Division BCSM minimum standards.

**References:** a. Boat Crew Seamanship Manual  
b. Vessel Operator Manuals

**Conditions:** Task should be performed in fair to moderate weather conditions onboard a Division vessel.

**Standards:** In the presence of and without assistance from the instructor identify major engine operating system functions.

| <b>Performance Criteria</b>  | <b>Completed (Initials)</b> |
|--|-----------------------------|
| 1. Identify engine type including make and model.  |                             |
| 2. State fuel and oil type and capacities, locate fuel and oil tanks and fill locations, follow fuel lines. Locate filters and hand bulbs. Locate fuel take vents. |                             |
| 3. Discuss safety and cleanliness issues related to fueling and oiling.  |                             |
| 4. Demonstrate fueling the boat.   |                             |
| 5. Demonstrate filling oil tank(s) on the boat   |                             |
| 6. Identify cooling system intake and discharge locations.   |                             |
| 7. State prop size, locate spare prop and demonstrate how to change prop.  |                             |
| 8. Demonstrate ability to raise and lower engines with and without power   |                             |
| 9. Demonstrate ability to lock engine in position for road travel  |                             |
| 10. Describe ventilation concerns aboard the vessel.   |                             |

**Instructor:** \_\_\_\_\_ **Date:** \_\_\_\_\_

**Comments**

**TASK BCM-07-16**

**Equipment Systems and Vessel Features**

**NOTE:** This task is mandatory to complete Division BCSM minimum standards.

**References:** a. Boat Crew Seamanship Manual  
b. Vessel Operator Manuals

**Conditions:** Task should be performed in fair to moderate weather conditions onboard a Division vessel.

**Standards:** In the presence of and without assistance from the instructor identify major vessel construction and equipment and operating system features

| <b>Performance Criteria</b>   | <b>Completed (Initials)</b> |
|---|-----------------------------|
| 1. Identify make, model, and hull type and locate HIN.  |                             |
| 2. State length, width, draft, and capacity of vessel.  |                             |
| 3. Locate trailer eyebolt, transducers, and zincs on the exterior of the hull.  |                             |
| 4. Locate and describe the use for all cleats and tow bitts on the vessel.  |                             |
| 5. Locate and describe the use of each compartment aboard the vessel  |                             |
| 6. Locate mandatory equipment aboard each boat.   |                             |
| 7. Using the Equipment List for each boat, locate and identify the use of each piece of equipment.  |                             |
| 8. Locate batteries, House and Engine power switches, cables and fuses.   |                             |
| 9. Identify vessel drainage system including bilge pumps and plug locations   |                             |
| 10. Locate trim tabs and switches. Describe the uses for the trim tabs.   |                             |
| 11. Locate navigation lights and switches. Describe when navigation lights are to be used.  |                             |
| 12. Locate the cabin heater. Demonstrate turning it, adjusting temperature and heat discharge angles. Locate and demonstrate filling the heater fuel tank. Identify what fuel the heater burns. |                             |

**Instructor:** \_\_\_\_\_ **Date:** \_\_\_\_\_

**Comments**

**TASK BCM-07-17**

**Launching a Division Vessel (Two Person)**

**NOTE:** This task is mandatory to complete Division BCSM minimum standards.

**References:** a. Boat Crew Seamanship Manual

**Conditions:** Task should be performed in fair to moderate weather conditions a Division vessel, using a Division motor vehicle rated for towing.

**Standards:** In the presence of and without assistance from the instructor, properly demonstrate the procedures for accomplishing a one and two person launch of the patrol vessel. Task is to be performed twice, once without assistance (one-person launch) and once with assistance (two-person launch).

| <b>Performance Criteria</b>  | <b>Completed (Initials)</b> |
|--|-----------------------------|
| 1. Prepare vessel before getting to the ramp.                              |                             |
| 2. Remove all tie downs except the winch cable and safety chain.           |                             |
| 3. Make sure drain plugs are in place                                      |                             |
| 4. Back vessel into water until just floating, set vehicle parking brake.  |                             |
| 5. Unlock winch cable and safety chain.                                    |                             |
| 6. Unlock winch cable and safety chain.                                    |                             |
| 7. Release parking brake and move tow vehicle to appropriate parking space |                             |
| 8. Demonstrate rinsing the trailer and explain the importance of doing so. |                             |
| 9. Trainee states launching plan.  |                             |
| 10. Trainee states the importance of greasing bearings.                    |                             |

**Instructor:** \_\_\_\_\_ **Date:** \_\_\_\_\_

**Comments**

**TASK BCM-07-18-TYPE**

**Retrieving a Division Vessel (Two Person)**

**NOTE:** This task is mandatory to complete Division BCSM minimum standards.

**References:** a. Boat Crew Seamanship Manual  
b. Vessel Operator Manuals

**Conditions:** Task should be performed in fair to moderate weather conditions onboard a Division vessel.

**Standards:** In the presence of and without assistance from the instructor, properly demonstrate the procedures for accomplishing a one and two person retrieval of the rescue vessel

| <b>Performance Criteria</b>  | <b>Completed (Initials)</b> |
|--|-----------------------------|
| 1. Back tow vehicle down ramp until approximately 2/3 of bunk or rollers are in the water.                                   |                             |
| 2. Set parking brake on tow vehicle.   |                             |
| 3. Attach the winch cable and safety chain to the trailer eye bolt.  |                             |
| 4. Tighten winch, engage engine travel locks.  |                             |
| 5. Release vehicle parking brake and pull boat out of water and remove drain plug (if the vessel has one) at bottom of ramp. |                             |
| 6. Before leaving launching area check for and remove any plants or animals that are attached to the boat or trailer.        |                             |
| 7. Move to tie down area and attach tie down straps. Check that trailer lights are plugged in. Stow loose gear.              |                             |
| 8. Tilt and secure outboards. Turn batteries off. Attach any covers to boat or instruments                                   |                             |
| 9. Make final check before leaving making sure hitch safety chains and hitch lock are secured.                               |                             |
| 10. Thoroughly rinse trailer and explain why this is important.  |                             |

**Instructor:** \_\_\_\_\_ **Date:** \_\_\_\_\_

**Comments**