



# PART 2

## Boat Crewmember Qualification

**Introduction**

This Part contains a collection of tasks, which must be learned, practiced, and performed by the trainee. These tasks represent the minimum elements of skill and knowledge necessary for an Auxiliarist to be a safe, proficient, professional, and effective Coast Guard Auxiliary Boat Crewmember.

**NOTE** *~*

This Volume is not meant to be ordered through the Auxiliary National Supply Center for purposes of obtaining individual qualification tasks. Qualification tasks should be reproduced locally and provided to trainees.

**In this Part**

This Part contains the following chapters:

Chapter	Title	See Page
1	<a href="#">Task Accomplishment Record for Boat Crewmember</a>	2-3
2	<a href="#">Boat Crewmember Qualification Tasks</a>	2-7
3	<a href="#">Boat Crewmember Trainee Study Guide</a>	2-89



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**NOTE** *~*

Mentors shall use a copy of this form (for each trainee) to record accomplishment of tasks. Following task completion, member shall retain this for their record and provide a copy to the QE.

TRAINEE'S NAME: \_\_\_\_\_ MEMBER #: \_\_\_\_\_

**NOTE** *~*

Mentors should document and initial those tasks not applicable, waived, or deferred to this qualification. Use Comments.

Task	Date Started	Date Completed	Mentor's Initials
BCM-01-01-AUX			
BCM-01-02-AUX			
BCM-01-03-AUX			
BCM-01-04-AUX			
BCM-02-01-AUX			
BCM-02-02-AUX			
BCM-02-03-AUX			
BCM-02-04-AUX			
BCM-02-05-AUX			
BCM-02-06-AUX			
BCM-02-07-AUX			
BCM-02-08-AUX			
BCM-02-09-AUX			
BCM-02-10-AUX			
BCM-02-11-AUX			
BCM-02-12-AUX			
BCM-02-13-AUX			
BCM-02-14-AUX			
BCM-02-15-AUX			
BCM-02-16-AUX			
BCM-02-17-AUX			
BCM-02-18-AUX			
BCM-02-19-AUX			

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 Chapter 1 – Task Accomplishment Record



TRAINEE'S NAME: _____		MEMBER'S # _____	
Task	Date Started	Date Completed	Mentor's Initials
BCM-02-20-AUX			
BCM-03-01-AUX			
BCM-03-02-AUX			
BCM-03-03-AUX			
BCM-03-04-AUX			
BCM-03-05-AUX			
BCM-03-06-AUX			
BCM-03-07-AUX			
BCM-03-08-AUX			
BCM-03-09-AUX			
BCM-04-01-AUX			
BCM-04-02-AUX			
BCM-04-03-AUX			
BCM-04-04-AUX			
BCM-04-05-AUX			
BCM-04-06-AUX			
BCM-04-07-AUX			
BCM-04-08-AUX			
BCM-04-09-AUX			
BCM-04-10-AUX			
BCM-05-01-AUX			
BCM-05-02-AUX			
BCM-05-03-AUX			
BCM-06-01-AUX			
BCM-06-02-AUX			
BCM-06-03-AUX			
BCM-06-04-AUX			
BCM-06-05-AUX			
BCM-06-06-AUX			



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Chapter 1 – Task Accomplishment Record

TRAINEE'S NAME: _____		MEMBER'S # _____	
Task	Date Started	Date Completed	Mentor's Initials
BCM-06-07-AUX			
BCM-06-08-AUX			
BCM-06-09-AUX			
BCM-06-10-AUX			
BCM-06-11-AUX			
BCM-07-01-AUX(Day)			
BCM-07-01-AUX(Night)			
BCM-07-02-AUX(Day)			
BCM-07-02-AUX(Night)			
BCM-07-03-AUX			
BCM-07-04-AUX			
BCM-07-05-AUX			
BCM-07-06-AUX			
BCM-07-07-AUX			
BCM-07-08-AUX			
BCM-07-09-AUX			
BCM-07-10-AUX			
BCM-07-11-AUX			
BCM-07-12-AUX			
BCM-08-01-AUX			
BCM-08-02-AUX(Day)			
BCM-08-02-AUX(Night)			
BCM-08-03-AUX			
BCM-08-04-AUX			



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## CHAPTER 2

### Boat Crewmember Qualification Tasks

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#### **Introduction**

The following are the instructions for this chapter:

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

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#### **In this Chapter**

This chapter contains the following sections:

<b>Section</b>	<b>Title</b>	<b>See Page</b>
A	Crew Efficiency Factors, Risk Factors and Team Coordination	2-8
B	Physical Fitness, First-Aid and Survival	2-11
C	Marlinespike Seamanship, Boat Nomenclature, Nautical Terminology, and Basic Stability	2-33
D	Boat Handling	2-42
E	Communications	2-52
F	Navigation	2-56
G	Mission-Oriented Operations	2-68
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## Section A. Crew Efficiency Factors, Risk Factors and Team Coordination

**Introduction**

The following are objectives of this Section A:

- (01) **Demonstrate** knowledge of the factors that affect crew performance.
- (02) **Attend** Team Coordination Training.

**In this Section**

This Section contains the following tasks:

Task Number	Task	See Page
BCM-01-01-AUX	<a href="#">Crew Fatigue Standards</a>	2-8
BCM-01-02-AUX	<a href="#">Motion Sickness</a>	2-9
BCM-01-03-AUX	<a href="#">Risk Management/Team Coordination Training</a>	2-9
BCM-01-04-AUX	<a href="#">Completed ICS and Required Workshops and Courses</a>	2-10

**TASK BCM-01-01-AUX: Crew Fatigue Standards**

**Reference**

- a. *Auxiliary Operations Process Guide: Volume I - General/Surface, AOPG 16798.31 (series), Chapter 10, Section L*
- b. *Boat Crew Handbook – Boat Operations, BCH16114.1 (series)*

**Conditions**

Task should be performed at any time ashore, at the dock, or underway. Trainee must accomplish task without prompting or use of a reference.

**Standards**

In response to the mentor, the trainee must either demonstrate knowledge or perform each task to the minimum standards included in each performance step.

Performance Criteria	Completed (Initials)
1. State the situations that may cause fatigue.	_____
1. State the crew’s responsibility.	_____
2. State the primary symptoms of fatigue.	_____
3. State the prevention measures.	_____
4. State what Crew Endurance Management (CEM) is based on.	_____
5. State the requirements for Underway Time Computation.	_____
6. State the requirements for Crew Fatigue Time Computation.	_____
7. State any additional underway limits set for vessels by the District, Sector or Station.	_____

**Mentor** \_\_\_\_\_

**Date** \_\_\_\_\_

**Comments**

\_\_\_\_\_

\_\_\_\_\_





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

**References** *Boat Crew Handbook – First Aid, BCH16114.5 (series)*

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

**Standards** In response to the mentor, the trainee must either demonstrate knowledge or perform each task to the minimum standards included in each performance step.

Performance Criteria	Completed (Initials)
1. State the causes of motion sickness.	_____
2. List the symptoms of motion sickness.	_____
3. List the prevention and medication for motion sickness.	_____
4. State when best to take anti-motion sickness medication.	_____

**Mentor** \_\_\_\_\_ **Date** \_\_\_\_\_

**Comments** \_\_\_\_\_

\_\_\_\_\_

**TASK BCM-01-03-AUX: Risk Management/Team Coordination Training**

**References**

- a. *Risk Management, COMDTINST 3500.3 (series)*
- b. *Auxiliary Operations Process Guide: Volume I - General/Surface, AOPG 16798.31 (series), Chapter 10, Section L*
- c. *CG-BSX Policy Letter 19-01(B)*

**Conditions** Task should be performed at any time, at a location suitable for that purpose.

**Standards** Trainee must attend the training as prescribed in reference (b). Trainee must demonstrate knowledge or performance for Task #3 and #4,

Performance Criteria	Completed (Initials)
1. Completed Introduction to Risk Management LMS Course (100202) and facilitated discussion. Date recorded in AuxData II: _____.	_____
2. Completed Annual Risk Management/TCT Refresher Training and is recorded in AuxData II. Most Recent Data TCT training completed: _____.	_____
3. State importance of a crew communications and operational communications plan encompassing boat-to-boat, boat-to-shore, shore-to-boat.	_____
4. Participate in a risk assessment using appropriate risk management tools (SPE, GAR or other) from TCT/RM and include discussion of risks as part of crew briefs including weather conditions, facility limitations, crew fitness and patrol fatigue limits.	_____

**Mentor** \_\_\_\_\_ **Date** \_\_\_\_\_

**Comments** \_\_\_\_\_

\_\_\_\_\_



**TASK BCM-01-04-AUX: Completed ICS and Required Workshops and Courses**

**References**

- a. *Federal Emergency Management Agency (FEMA) on-line courses or*
- b. *Coast Guard Auxiliary Training Directorate website.*

**Conditions**

Task should be performed at any time, at a location suitable for that purpose.

**Standards**

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

Performance Criteria	Completed (Initials)
1. Passed the IS-100 Course.	_____
2. Passed the IS-700 Course.	_____
3. Completed Annual Operations Workshop.	_____
4. Completed BQII (if member enrollment date is February 1, 2018, to present) and is recorded in AuxData II.	_____
5. Completed AUXCT (Core Training), is in good standing and is recorded in AuxData II.	_____

**Mentor**

**Date**

**Comments**

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

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### Introduction

The following are objectives of Section B:

- (01) **Achieve** and **maintain** the level of physical conditioning necessary to safely and properly carry out the duties of a Boat Crewmember aboard a Coast Guard Auxiliary facility.
- (02) **Identify** and **become** proficient in those skills necessary for coping with open water survival situations.
- (03) **Effectively** use all standard boat crew signaling and survival equipment.

### In this Section

This Section contains the following tasks:

Task Number	Task	See Page
BCM-02-01-AUX	Personal Physical Requirements and Policy	2-13
BCM-02-02-AUX	Personal Physical Fitness and Vision	2-14
BCM-02-03-AUX	Don the Type III PFD	2-18
BCM-02-04-AUX	Don the Automatic Inflatable PFD, (if applicable)	2-19
BCM-02-05-AUX	Don Anti-Exposure Coveralls (as applicable)	2-21
BCM-02-06-AUX	Don the Boat Crew Dry Suit (as applicable)	2-22
BCM-02-07-AUX	Identify Boat Crew Survival Equipment	2-23
BCM-02-08-AUX	Use the Emergency Signaling Mirror	2-24
BCM-02-09-AUX	Describe the Use of Hand-Held Distress Flares	2-25
BCM-02-10-AUX	Describe the Use of Aerial Flares	2-26
BCM-02-11-AUX	Operate the Personal Marker Light (PML) or Strobe Light	2-27
BCM-02-12-AUX	Operate the Personal Locator Beacon	2-28
BCM-02-13-AUX	State Survival Procedures in Event the Boat Capsizes or Swamps	2-28
BCM-02-14-AUX	Perform Water Survival Exercise	2-29
BCM-02-15-AUX	Crew First-Aid Responsibility	2-30
BCM-02-16-AUX	Sun and Heat Related Factors	2-30
BCM-02-17-AUX	State the Symptoms of Shock	2-31
BCM-02-18-AUX	State the Symptoms of Anaphylactic Shock (Allergic Reaction)	2-31
BCM-02-19-AUX	State the Signs for Burns	2-32



BCM-02-20-AUX	State the Symptoms of Hypothermia	2-32
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**TASK BCM-02-01-AUX: Personal Physical Requirements and Policy**

**References**

- a. *Auxiliary Operations Process Guide: Volume I - General/Surface, AOPG 16798.31 (series)*
- b. *Auxiliary Manual, COMDTINST M16790.1 (series)*

**Conditions**

Task should be performed at any time ashore, at the dock, or underway. Trainee must accomplish task without prompting or use of a reference.

**Standards**

In response to the mentor, the trainee must state the physical requirements to be demonstrated and policies required to be practiced to participate as an Auxiliary crewmember, in the Auxiliary Boat Crew program.

Performance Criteria	Completed (Initials)
1. State the physical requirements necessary to participate in the Auxiliary Boat Crew program.	_____
2. State the policy and responsibility of a crewmember when that member is unable or unfit to perform required duties on an ordered mission.	_____
3. State the policy and responsibility of a crewmember that becomes aware of any incapacity, disability, or other disqualifying condition in another crewmember.	_____
4. State who is responsible to abort the operational mission if the crewmember or coxswain is reported as unfit to perform assigned duties.	_____
5. State the policy on personal grooming and proper uniform requirements.	_____

**Mentor**

**Date**

\_\_\_\_\_

**Comments**

\_\_\_\_\_  
 \_\_\_\_\_



**TASK BCM-02-02-AUX: Personal Physical Fitness and Vision**

**References**

a. *Merchant Mariner Medical Manual, COMDTINST M16721.48 (series)*

**Conditions**

Tasks may be performed at any time; ashore, at the dock, or underway. The candidate must accomplish the tasks without prompting or use of any other reference not part of this task. **Mentor shall have trainee complete this TASK during the PQS process ONLY to ensure trainee can complete the qualification process.**

**QE shall have trainee complete “physical fitness requirements” #1 of this TASK before and during any underway checkride or evaluations.**

**QE shall complete or verify doctor’s eye exam certificate timeline requirements in “vision requirements” #2 of this TASK prior to any underway checkride or evaluations.**

**Standards**

The candidate must demonstrate the ability to perform the requirements set forth below.

Performance Criteria			Completed (Initials)
1. Accomplish all physical fitness requirements as stated in table below:			
TASK, FUNCTION, EVENT, OR CONDITION:	RELATED PHYSICAL ABILITY:	THE MENTOR/QE SHOULD BE SATISFIED THAT THE AUXILIARIST:	
Routine movement on slippery, uneven, and unstable surfaces.	Maintain balance (equilibrium) and move with agility.	Has no disturbance in sense of balance. Has no impairment or disease that prevents or limits any of the movements and physical activities listed in this table.	_____
Routine access between levels. (If Applicable)	Climb up and down vertical ladders and stairways. (If applicable to the facility)	Is able to climb up and down vertical ladders and stairways, without assistance.	_____
Routine movement between spaces and compartments.	Step over high door sills and coamings. Work in constricted spaces and move through restricted openings.	Is able to perform the following, without assistance: Move around the facility safely.	_____
Stand a routine watch.	Stand a routine watch. Stand, walk and remain alert for extended periods of time.	Is able to perform the following, without assistance: remain awake and mentally alert while underway.	_____
React and respond to visual alarms, warnings, and instructions; emergency response procedures.	Maintain balance (equilibrium) and move with agility. Has strength and range to put on a personal flotation device.	The candidate is able to safely respond to any emergency and can safely accomplish any TASK in the qualification process with no physical limitations.	_____



Performance Criteria			Completed (Initials)
2. Accomplish all vision requirements as stated in table below:			
Distinguish objects or shapes at a distance.  See Note 1 below.	<b>A doctor's eye exam certificate (issued within the last 2 years of today's checkride date) may be used in lieu of this test. The certificate must state the candidate has been tested and their vision in each eye is 20/40 or greater. If needed, with corrective lenses. (Certificate may not be retained by the QE).</b>	For each eye, independently, using the associated PDF vision chart, at approximately 10.5 feet from the chart, the candidate must read line 3. If needed, corrective lenses may be worn.	_____
Distinguish colored navigational aids.  See Note 2 below.	<b>A doctor's eye exam certificate (issued within the last 2 years of today's checkride date) may be used in lieu of this test. The certificate must state the candidate has been tested and has normal color vision. (Certificate may not be retained by the QE).</b>	Candidate can distinguish red, yellow, white, and green colors using the associated color recognition chart.	_____

**Note 1:** Candidates who cannot distinguish objects or shapes are prohibited from participating in operations until member is further evaluated by a licensed ophthalmologist (MD or DO) or optometrist (OD). If member is determined to be legally blind in both eyes by a certified [eye] Doctor, then member is prohibited from participating as Crewmember, Coxswain, or PWC operator. A written attestation of approval by the certifying Doctor showing 20/40 or greater must be provided to the QE in order for the task to be signed off (written attestation may not be retained by the QE).

**Note 2:** Candidates who cannot distinguish the colors are prohibited from participating in operations until member is further evaluated for color blindness by a licensed ophthalmologist (MD or DO) or optometrist (OD). If member is determined to be color blind and color blindness cannot be correct by special eyewear, then member is prohibited from participating as Crewmember, Coxswain, or PWC operator. A written attestation of approval by the certifying Doctor must be provided to the QE in order for the task to be signed off (written attestation may not be retained by the QE).

I certify the above information to be true and accurate.

<b>Mentor:</b>		<b>Date:</b>	
<b>QE:</b>		<b>Date:</b>	
<b>Comments</b>			



## VISION CHART

Holding the chart approximately 10.5 feet away from the candidate, for each eye, independently, the QE will have the candidate read the **third** line from top. If needed, corrective lenses may be worn. If the candidate is unable to complete, see Note 1 in Performance Criteria #2.

**\*A doctor's eye exam certificate (issued within the last 2 years of today's checkride date) may be used in lieu of this test. The certificate must state the candidate has been tested and their vision in each eye is 20/40 or greater.**
















## COLOR RECOGNITION CHART

Ignoring the background, the QE will ask the candidate to:

Identify all the objects, from the chart below, which are: Yellow, Green, Red, or White. Color correction glasses may be used.

If the candidate is unable to identify the colors, see Note 2 in the Performance Criteria #2.

**\*A doctor's eye exam certificate (issued within the last 2 years of today's checkride date) may be used in lieu of this test. The certificate must state the candidate has been tested and has normal vision.**

 <p>Block 1</p>	 <p>Block 2</p>	 <p>Block 3</p>
 <p>Block 4</p>	 <p>Block 5</p>	 <p>Block 6</p>
 <p>Block 7</p>	 <p>Block 8</p>	 <p>Block 9</p>



**TASK BCM-02-03-AUX: Don the Type III PFD**

**Reference**

- a. *Rescue and Survival Systems Manual, COMDTINST M10470.10 (series)*
- b. *Boat Crew Handbook - Rescue and Survival Procedures, BCH 16114.2 (series)*

**Conditions**

Task should be performed at any time ashore, at the dock, or underway. Trainee must accomplish task without prompting or use of a reference.

**Standards**

In response to the mentor, the trainee shall, without error, don the Type III PFD.

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

**Mentor**

**Date**

\_\_\_\_\_

**Comments**

\_\_\_\_\_  
 \_\_\_\_\_



**TASK BCM-02-04-AUX: Don the Automatic Inflatable PFD, (if applicable)**

**NOTE**

Task **MAY BE DEFFERED**.

**WARNING**

Do not wear under other equipment (I.e. Boat Crew Survival Vest) or place anything over the PFD. Equipment worn over the PFD can restrict the outward inflating action and may prevent breathing or cause crushing injuries to the upper torso.

**Reference**

- a. *Rescue and Survival Systems Manual, COMDTINST M10470.10 (series)*
- b. *Auxiliary Operations Process Guide: Volume I - General/Surface, AOPG 16798.31 (series), Chapter 10, Section I*
- c. *Inflatable PFD Manufacturer’s Operating Instructions Manual*
- d. *Applicable Maintenance Procedure Card (MPC)*
- e. *Boat Crew Handbook - Rescue and Survival Procedures, BCH 16114.2 (series)*

**Conditions**

Task should be performed at any time ashore.

**Standards**

The TASK shall be instructed by an Active Duty or Auxiliary R&S manager only. This vest uses the Hammar MA1 Hydrostatic Inflator. Inadvertent inflations can cause a user to become temporarily disoriented. Training shall include donning the vest and Manual inflating ONLY. DO NOT automatic inflate.

Performance Criteria	Completed (Initials)
1. Stated the only approved and authorized Inflatable PFD for Auxiliary usage onboard Auxiliary boats operating under Patrol Orders.	_____
2. State the policy associated with wearing of an inflatable PFD over other types of PFD’s (AEC’s, float coats).	_____
3. State the requirements and proper methods for maintenance and stowage of the inflatable PFD.	_____
4. Identify key components of the inflatable PFD. (pull cord, automatic inflation device, automatic inflation device status indicators/meanings, manual inflation tube, bladder, etc.).	_____
5. Explain the 3 modes of inflation.	_____
6. Describe how the ‘automatic inflation’ device works.	_____
7. State the restrictions on wearing inflatable PFDs.	_____
8. State when an inflatable PFD is required to be worn.	_____
9. Conduct a pre-wear inspection of the PFD.	_____
10. Demonstrate proper donning of the Automatic Inflating PFD.	_____
11. Locate the following equipment and ensure each piece is stored IAW the MPC: <ol style="list-style-type: none"> <li>a. Strobe Light or PML</li> <li>b. Whistle</li> <li>c. Signal mirror</li> <li>d. Knife</li> <li>e. PLB</li> </ol>	_____
12. Respond to an automatic inflation failure. <ol style="list-style-type: none"> <li>a. Attempt manual inflation via pull cord. (DO NOT PULL CORD. SIMULATED)</li> <li>b. Identify inflation failure. (PFD fails to inflate using pull cord)</li> <li>c. Manually inflate PFD using inflation tube.</li> </ol>	_____



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Performance Criteria	Completed (Initials)
13. While wearing, deflate PFD.	_____
14. Inspect PFD per MPC and document.	_____

**R&S** \_\_\_\_\_ **Date** \_\_\_\_\_  
**Manager**

**Mentor** \_\_\_\_\_ **Date** \_\_\_\_\_

**Comments**  
\_\_\_\_\_  
\_\_\_\_\_



**TASK BCM-02-05-AUX: Don Anti-Exposure Coveralls (as applicable)**

**Reference**

- a. *Rescue and Survival Systems Manual, COMDTINST M10470.10 (series)*
- b. *Boat Crew Handbook - Rescue and Survival Procedures, BCH 16114.2 (series)*

**Conditions**

Task should be performed at any time ashore, at the dock, or underway. Trainee must accomplish task without prompting or use of a reference.

**Standards**

In response to the mentor, the trainee shall, without error, don the Anti-Exposure Coveralls.

**NOTE**

Task MAY BE DEFERRED for members exempt from issuance of hyperthermia gear based on geographic area IAW reference (a) or local District DIRAUX policy.

Performance Criteria	Completed (Initials)
1. Demonstrate proper donning of the anti-exposure coveralls and adjust for proper fit.	_____
2. Demonstrate proper use of the special construction features of the anti-exposure coveralls (i.e., zipper closures; ankle, thigh, and wrist straps; pillow; waist belt and hood, and state how this increase hypothermia protection when used in the water.	_____
3. State when the anti-exposure coveralls are required to be worn.	_____
4. Demonstrate donning attached hood.	_____

**Mentor** \_\_\_\_\_

**Date** \_\_\_\_\_

**Comments**

\_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_



**TASK BCM-02-06-AUX: Don the Boat Crew Dry Suit (as applicable)**

**Reference**

- a. *Rescue and Survival Systems Manual, COMDTINST M10470.10 (series)*
- b. *Boat Crew Handbook - Rescue and Survival Procedures, BCH 16114.2 (series)*

**Conditions**

Task should be performed at any time ashore, at the dock, or underway. Trainee must accomplish task without prompting or use of a reference.

**Standards**

In response to the mentor, the trainee shall, without error, don a boat crew dry suit.

**NOTE**

Task MAY BE DEFERRED for members exempt from issuance of hyperthermia gear based on geographic area IAW reference (a) or local District DIRAUX policy.

Performance Criteria	Completed (Initials)
1. State the proper thermal protective layers to be worn under the boat crew dry suit.	_____
2. Demonstrate proper donning of the boat crew dry suit and adjust for proper fit. Demonstrate proper donning of attached or neoprene hood.	_____
3. State the requirements for when a boat crew dry suit is to be worn.	_____
4. State material condition inspection procedure; methods for sizing neck and wrist seals; problems that would make a boat crew dry suit unserviceable.	_____
5. State requirements and proper methods for maintenance and stowage of the boat crew dry suit.	_____

**Mentor**

**Date**

**Comments**

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**TASK BCM-02-07-AUX: Identify Boat Crew Survival Equipment**

**References** a. *Rescue and Survival Systems Manual, COMDTINST M10470.10 (series)*  
 b. *Boat Crew Handbook - Rescue and Survival Procedures, BCH 16114.2 (series)*

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

**Standards** In response to the mentor, the trainee must, without error, state the policy for wearing PFDs, and the survival equipment required while on a surface patrol or mission.

Performance Criteria	Completed (Initials)
1. State the types of PFDs required to be worn when on patrol.	_____
2. Identify the required survival equipment that must be on the PFD. a. Emergency signal mirror, b. Signal whistle, c. Strobe Light or Personal Marker Light, d. SOLAS Reflective tape attached to the PFD, e. Personal Locator Beacon f. Knife (optional)	_____

**Mentor** \_\_\_\_\_ **Date** \_\_\_\_\_

**Comments**  
 \_\_\_\_\_  
 \_\_\_\_\_



**TASK BCM-02-08-AUX: Use the Emergency Signaling Mirror**

**References**

- a. *Boat Crew Handbook - Rescue and Survival Procedures, BCH 16114.2 (series)*
- b. *Manufacturer Guidelines*
- c. *Rescue and Survival Systems Manual, COMDTINST M10470.10 (series)*

**Conditions**

This task shall be performed ashore. Trainee should be wearing survival gear they typically wear while on patrol. Sunlight or any light source may be used to reflect onto a predetermined target (i.e., boat, location on a wall, etc.). Trainee must accomplish the task without prompting or use of a reference.

**Standards**

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

Performance Criteria	Completed (Initials)
1. Locate and break out signal mirror.	_____
2. Reflect sunlight or any light source from the mirror onto a nearby surface (i.e., 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.	_____

**Mentor** \_\_\_\_\_

**Date** \_\_\_\_\_

**Comments**

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_





**TASK BCM-02-09-AUX: Describe the Use of Hand-Held Distress Flares**

**References** a. *Boat Crew Handbook - Rescue and Survival Procedures, BCH 16114.2 (series)*  
 b. *Rescue and Survival Systems Manual, COMDTINST M10470.10 (series)*

**Conditions** Task should be performed at any time ashore, at the dock, or underway. Trainee must accomplish task using the manufacturers guidelines and safety precautions.

**Standards** In response to the mentor, the trainee must, without error, identify the CG approved hand-held distress flares (used on the vessel facility) and describe the sequence required to safely ignite the signal.

**NOTE** *GS*

Task MAY BE DEFERRED if member will be operating on a facility that is legally exempt from flare carriage requirements based on geographic area.

Performance Criteria	Completed (Initials)
1. Signal broken out and identified whether day or night flare.	_____
2. Described the proper use of the flare in accordance with manufacturer's operating instructions.	_____
3. Demonstrated the safe use (a walk through without igniting) of the flare.	_____
4. Stated the proper disposal of a used hand-held flare.	_____
5. Stated conditions when each hand-held distress flare would be most effective.	_____

**Mentor** \_\_\_\_\_ **Date** \_\_\_\_\_

**Comments** \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_



**TASK BCM-02-10-AUX: Describe the Use of Aerial Flares**

**References**

- a. *Boat Crew Handbook - Rescue and Survival Procedures, BCH 16114.2 (series)*
- b. *Rescue and Survival Systems Manual, COMDTINST M10470.10 (series)*
- c. *Manufacturer's Operating Instructions*

**Conditions**

Task should be performed at any time ashore, at the dock, or underway. Trainee must accomplish task using the manufacture guidelines and safety precautions.

**Standards**

In response to the mentor, the trainee must identify the CG approved aerial flare (used on the Auxiliary Facility) and describe the sequence required safely to ignite the flare.

**NOTE**

Task MAY BE DEFERRED if member will be operating on a facility that is legally exempt from flare carriage requirements based on geographic area.

Performance Criteria	Completed (Initials)
1. Aerial flare broken out and identified.	_____
2. Described the proper use of the aerial flare in accordance with manufacturer's instruction.	_____
3. Demonstrated the safe use (a walk through without igniting) of the aerial flare.	_____
4. Described the proper disposal of a used aerial flare	_____
5. Stated conditions when the aerial flare would be most effective.	_____

**Mentor** \_\_\_\_\_

**Date** \_\_\_\_\_

**Comments**

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_



**TASK BCM-02-11-AUX: Operate the Personal Marker Light (PML) or Strobe Light**

**References**

- a. *Boat Crew Handbook - Rescue and Survival Procedures, BCH 16114.2 (series)*
- b. *Rescue and Survival Systems Manual, COMDTINST M10470.10 (series)*
- c. *Manufacturer's Operating Instructions*

**Conditions**

Task should be performed at any time ashore, at the dock, or underway, candidate should be wearing personnel survival equipment and must accomplish task using the manufacturer's guidelines.

**Standards**

In response to the mentor, the candidate must properly operate and explain the characteristics and maintenance of the PML or Strobe light.

**NOTE**

If PML is a "Chem Lite" type, task steps may be described versus actually activating the PML.

Performance Criteria	Completed (Initials)
1. Light located on, and retrieved from, the PFD (light should be attached to PFD by a lanyard).	_____
2. Activated the PML or Strobe light.	_____
3. Describe the characteristics and maintenance of the specific light being used.	_____

**Mentor** \_\_\_\_\_ **Date** \_\_\_\_\_

**Comments**  
 \_\_\_\_\_  
 \_\_\_\_\_



**TASK BCM-02-12-AUX: Operate the Personal Locator Beacon**

**References**

- a. *Personal Locator Beacon Operator’s Manual*
- b. *Rescue and Survival Systems Manual, COMDTINST M10470.10 (series)*
- c. KB0040.0 406 *Personal Locator Beacon (PLB) INSP-ACCPT*
- d. KB0040.0 *PLB Monthly Tracking Record*

**Conditions**

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

**Standards**

In response to the mentor, the trainee shall, without error, simulate the activation of the Personal Locator Beacon and perform a monthly test of the PLB

**NOTE** *GS*

For the purpose of qualification and training, PLB shall not be activated unless within prescribed PMS Standards.

Performance Criteria	Completed (Initials)
1. Locate and remove PLB.	_____
2. Simulate Activation of PLB.	_____
3. Perform monthly test of PLB in accordance with PLB maintenance card “KB0040.0 406 Personal Locator Beacon (PLB) INSP-ACCPT” located in the AUXDATA II Rescue and Survival Library.	_____
4. Document monthly test in accordance with “KB0040.0 PLB Monthly Tracking Record” located in the AUXDATA II Rescue and Survival Library.	_____

**Mentor** \_\_\_\_\_

**Date** \_\_\_\_\_

**Comments**

\_\_\_\_\_

\_\_\_\_\_

**TASK BCM-02-13-AUX: State Survival Procedures in Event the Boat Capsizes or Swamps**

**Reference**

- a. *Rescue and Survival Systems Manual, COMDTINST M10470.10 (series)*
- b. *Boat Crew Handbook - Rescue and Survival Procedures, BCH 16114.2 (series)*

**Conditions**

Task should be performed at any time ashore, at the dock, or underway. Trainee must accomplish task without prompting or use of a reference.

**Standards**

In response to the mentor, the trainee must state all steps in the procedure.

Performance Criteria	Completed (Initials)
1. Describe the action to be taken during capsizing.	_____
2. Describe the route(s) of escape to be taken, in the event of capsizing.	_____
3. Explain the action to be taken if trapped inside an enclosed compartment.	_____
4. Describe the action to take if unable to exit the capsized vessel.	_____

**Mentor** \_\_\_\_\_

**Date** \_\_\_\_\_

**Comments**

\_\_\_\_\_

\_\_\_\_\_



**TASK BCM-02-14-AUX: Perform Water Survival Exercise**

**References**

- a. *Boat Crew Handbook - Rescue and Survival Procedures, BCH 16114.2 (series)*
- b. *Rescue and Survival Systems Manual, COMDTINST M10470.10 (series)*

**Conditions**

This task is not intended to be performed at the dock, underway, or from the beach, unless specific permission to do so has been granted by DIRAUX. A swimming pool (heated if necessary and available) should be used. The trainee must enter the water wearing a PFD or dry suit (with PFD). Trainee should be wearing all other survival gear consistent with the weather and water temperature or the local operating area. Trainee must accomplish task without prompting, hesitation, or use of a reference.

**Standards**

In response to the mentor, the trainee shall, without error, complete all steps of the water survival exercise.

**NOTE** *GS*

TASK BCM-02-08-AUX, BCM-02-11-AUX, & BCM-02-12 -AUX should all be completed at the same time with this task, if possible, for the purpose of qualification and training, PLB shall not be activated unless within prescribed MPC Standards.

Performance Criteria	Completed (Initials)
1. Don appropriate PPE and survival equipment and adjust for proper fit.	_____
2. Execute the following steps: a. Check surrounding water for debris and depth. b. Minimize initial immersion upon entry entering water..	_____
3. Adjust flotation, hypothermia protective garments (if used) and survival equipment to reduce water intrusion, heat loss, and to improve mobility and buoyancy.	_____
4. Demonstrate swimming using an energy conserving stroke or movement.	_____
5. Demonstrate the Heat Escape Lessening Position (HELP) for a single person in the water.	_____
6. Demonstrate or describe the HELP for multiple survivors.	_____
7. Access and demonstrate the use of the following equipment: a. Strobe light or PML b. Whistle c. Signal mirror f. Knife (if carried) g. PLB	_____

**Mentor**

**Date**

\_\_\_\_\_

**Comments**

\_\_\_\_\_  
 \_\_\_\_\_



**TASK BCM-02-15-AUX: Crew First-Aid Responsibility**

**Reference** a. *Auxiliary Operations Process Guide: Volume I - General/Surface, AOPG 16798.31 (series), Chapter 8, Section G*

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

**Standards** Trainee must demonstrate knowledge of key elements of crew responsibilities for rendering first aid.

Performance Criteria	Completed (Initials)
1. State the policy for rendering first aid, including CPR, by an Auxiliary member.	_____

**Mentor** \_\_\_\_\_ **Date** \_\_\_\_\_

**Comments**  
\_\_\_\_\_  
\_\_\_\_\_

**TASK BCM-02-16-AUX: Sun and Heat Related Factors**

**References** a. *Boat Crew Handbook – First Aid, BCH 16114.5 (series)*

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

**Standards** In response to the mentor, the trainee must either demonstrate knowledge or perform each task to the minimum standards included in each performance step.

Performance Criteria	Completed (Initials)
1. Described the symptoms and explained the preventative measures for sun burn.	_____
2. Defined dehydration. Described the symptoms and preventive measures for dehydration.	_____
3. Defined heat rash (Prickly Heat). Stated the causes, symptoms, and preventative measures for heat rash.	_____
4. Defined heat cramps. Stated the causes and preventative measures for heat cramps.	_____
5. Defined heat exhaustion. Stated the causes, symptoms, and preventative measures for heat exhaustion.	_____
6. Defined heat stroke. Stated the causes, symptoms, and preventative measures for heat stroke.	_____

**Mentor** \_\_\_\_\_ **Date** \_\_\_\_\_

**Comments**  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_



**TASK BCM-02-17-AUX: State the Symptoms of Shock**

**References** a. *Boat Crew Handbook – First Aid, BCH 16114.5 (series)*

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

**Standards** In response to the mentor, the trainee must, without error, state the common symptoms for shock.

Performance Criteria	Completed (Initials)
1. Defined shock and stated the causes of shock.	_____
2. Stated four common symptoms of shock.	_____

**Mentor** \_\_\_\_\_ **Date** \_\_\_\_\_

**Comments** \_\_\_\_\_

\_\_\_\_\_

**TASK BCM-02-18-AUX: State the Symptoms of Anaphylactic Shock (Allergic Reaction)**

**References** a. *Boat Crew Handbook – First Aid, BCH 16114.5 (series)*

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

**Standards** In response to the mentor, the trainee must, without error, state the common symptoms for anaphylactic shock.

Performance Criteria	Completed (Initials)
1. Define anaphylactic shock.	_____
2. State the causes of anaphylactic shock.	_____
3. List the symptoms of anaphylactic shock.	_____

**Mentor** \_\_\_\_\_ **Date** \_\_\_\_\_

**Comments** \_\_\_\_\_

\_\_\_\_\_



**TASK BCM-02-19-AUX: State the Signs for Burns**

**References** a. *Boat Crew Handbook – First Aid, BCH 16114.5 (series)*

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

**Standards** In response to the mentor, the trainee must, without error, state the signs for burns.

Performance Criteria	Completed (Initials)
1. Stated the three degrees of burns and their signs.	_____

**Mentor** \_\_\_\_\_ **Date** \_\_\_\_\_

**Comments**  
\_\_\_\_\_  
\_\_\_\_\_

**TASK BCM-02-20-AUX: State the Symptoms of Hypothermia**

**Reference** a. *Boat Crew Handbook – First Aid, BCH 16114.5 (series)*

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

**Standards** In response to the mentor, the trainee must, without error, state the symptoms of hypothermia.

Performance Criteria	Completed (Initials)
1. State the signs and symptoms for hypothermia.	_____
2. State the factors that increase the possibility of hypothermia.	_____
3. State the preventive measures used to increase the chances for cold water survival.	_____
4. State the survival time for a person in the water in the local area of operation.	_____

**Mentor** \_\_\_\_\_ **Date** \_\_\_\_\_

**Comments**  
\_\_\_\_\_  
\_\_\_\_\_






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

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### Introduction

The following are objectives of Section C:

- (01) **Identify, State** the use of, and be able to consistently tie the basic knots and hitches used aboard Auxiliary facility.
- (02) **Demonstrate** the ability to secure lines of various sizes to several types of deck and dock fittings.
- (03) **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 Page
BCM-03-01-AUX	State Common Boat Nomenclature and Terminology	2-34
BCM-03-02-AUX	Locate and Identify the Purpose of the Equipment Aboard the Boat; Perform Pre-Underway Testing; Conduct Pre-Underway Briefings	2-35
BCM-03-03-AUX	Boat Construction	2-36
BCM-03-04-AUX	Watertight Integrity	2-37
BCM-03-05-AUX	Stability	2-37
BCM-03-06-AUX	Identify the Different Parts of a Line and the Hitches Used in Line Handling	2-38
BCM-03-07-AUX	Tie Various Knots, Hitches, and Bends	2-39
BCM-03-08-AUX	Secure Lines to Cleats, Bitts, and Posts	2-40
BCM-03-09-AUX	State the Types of Breaking Seas, Characteristics, and Causes	2-41



**TASK BCM-03-01-AUX: State Common Boat Nomenclature and Terminology**

**Reference**

a. *Boat Crew Handbook – Seamanship Fundamentals, BCH16114.4 (series)*

**Conditions**

Task should be performed onboard an Auxiliary facility. Trainee must accomplish the task without prompting or use of a reference.

**Standards**

In response to the mentor, the trainee must, without error, identify different locations and positions aboard the boat.

Performance Criteria	Completed (Initials)
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 areas.	_____
7. Identify stern of the boat.	_____
8. Identify port quarter.	_____
9. Identify starboard bow.	_____
10. Identify windward and leeward side of the boat.	_____

**Mentor**

**Date**

\_\_\_\_\_

**Comments**

\_\_\_\_\_  
\_\_\_\_\_



**TASK BCM-03-02-AUX: Locate and Identify the Purpose of the Equipment Aboard the Facility; Perform Pre-Underway Testing; Conduct Pre-Underway Briefings**

**Reference** a. *Boat Crew Handbook – Seamanship Fundamentals, BCH16114.4 (series)*

**Conditions** Task should be performed using a simple line diagram of an OPFAC and the OPFAC pre-underway Check Off list. Trainee should list the location of each piece of equipment on the diagram. Trainee must accomplish the task without prompting or use of a reference.

**Standards** Trainee must locate and state the use of installed equipment.

Performance Criteria	Completed (Initials)
1. Verified appropriate Coast Guard orders have been issued.	_____
2. Under the observation of the coxswain, located and verified the proper operation/usage, condition, and stowage of the following equipment: <ul style="list-style-type: none"> <li>a. Personal Floatation Device (PFD) and required equipment.</li> <li>b. Fire extinguishers</li> <li>c. Visual distress signals</li> <li>d. Anchor(s) and anchor line(s)</li> <li>e. Dewatering device</li> <li>f. Watch or clock.</li> <li>g. Boarding ladder (or other means of boarding)</li> <li>h. Kicker/skiff hook (if required)</li> <li>i. Binoculars</li> <li>j. Fenders</li> <li>k. Towline</li> <li>l. Bridle</li> <li>m. Heaving lines</li> <li>n. Mooring lines</li> <li>o. Searchlight</li> <li>p. Spare navigation light bulbs</li> <li>q. Boat hook</li> <li>r. Navigation lights</li> <li>s. Depth sounder or sounding pole.</li> <li>t. Charts (if available to operating area) and navigation plotting instruments.</li> <li>u. Tools and spare parts</li> <li>v. First aid kit</li> <li>w. Sound producing device.</li> <li>x. Current Rules of the Road publication</li> </ul>	_____
3. Completed required mechanical, electrical, and engine checks listed below: <ul style="list-style-type: none"> <li>a. Oil level</li> <li>b. Water level</li> <li>c. Reduction gear oil level (if applicable)</li> <li>d. Fuel system and fuel shut off valves.</li> <li>e. Ventilation system</li> </ul>	_____
4. Participated in crew briefing, including: <ul style="list-style-type: none"> <li>a. Purpose of the mission</li> <li>b. Any special circumstances concerning the mission.</li> </ul>	_____



Performance Criteria	Completed (Initials)
c. Working radio frequency to be used for the mission. d. Expected weather and sea conditions. e. Crewmembers in proper uniform and PPE (PFDs, etc.). f. Confirmed monthly PLB testing IAW MPC has been completed. (Only required to be completed ONCE every 30 days). g. Confirmed crewmembers are physically capable to perform the mission. h. Discussed Risk Management and encouraged team coordination. i. Discussed the policy on the wearing of jewelry. Crew is in compliance	

**Mentor** \_\_\_\_\_ **Date** \_\_\_\_\_

**Comments**  
 \_\_\_\_\_  
 \_\_\_\_\_

**TASK BCM-03-03-AUX: Boat Construction**

**Reference** a. *Boat Crew Handbook – Seamanship Fundamentals, BCH16114.4 (series)*

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

**Standards** Trainee must demonstrate knowledge of each task from memory, without references.

Performance Criteria	Completed (Initials)
1. Describe common hull types.	_____
2. Define common keel types.	_____
3. Explain the significance of the following: a. Length b. Beam c. Draft (keel and lowest appendage)	_____

**Mentor** \_\_\_\_\_ **Date** \_\_\_\_\_

**Comments**  
 \_\_\_\_\_  
 \_\_\_\_\_



**TASK BCM-03-04-AUX: Watertight Integrity**

**Reference** a. *Boat Crew Handbook – Seamanship Fundamentals, BCH16114.4 (series)*

**Conditions** Task should be performed at any time at the dock or underway. Trainee must accomplish task without prompting or use of a reference.

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

Performance Criteria	Completed (Initials)
1. Explain watertight doors, hatches and through hull fittings and identify on the facility.	_____
2. Explain watertight compartments on a boat.	_____
3. State the factors that should be determined before you open watertight doors, hatches, and scuttle covers on a damaged boat.	_____
4. If equipped, open and close a watertight door and hatch.	_____

**Mentor** \_\_\_\_\_ **Date** \_\_\_\_\_

**Comments** \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

**TASK BCM-03-05-AUX: Stability**

**Reference** a. *Boat Crew Handbook – Seamanship Fundamentals, BCH16114.4 (series)*

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

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

Performance Criteria	Completed (Initials)
1. State the two primary forces that affect a boat’s stability.	_____
2. Define center of gravity and state how it changes as weight is added or subtracted upon the boat.	_____
3. Define buoyancy.	_____
4. Define equilibrium and state how it is changed during rolling, heeling, and listing.	_____
5. State the two types of stability.	_____
6. State the two types of forces that affect stability.	_____

**Mentor** \_\_\_\_\_ **Date** \_\_\_\_\_

**Comments** \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_



**TASK BCM-03-06-AUX: Identify the Different Parts of a Line and the Hitches Used in Line Handling**

**Reference**

a. *Boat Crew Handbook – Seamanship Fundamentals, BCH16114.4 (series)*

**Conditions**

Task should be performed at any time, ashore or underway, without prompting or use of a reference.

**Standards**

In response to the mentor, the trainee must, without error, identify the different parts of a line and basic knots.

Performance Criteria	Completed (Initials)
1. Define lay of line for: a. Double braid, b. Plain laid.	_____
2. Define line material: a. Polypropylene, b. Nylon, including double braid, c. 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.	_____

**Mentor**

**Date**

\_\_\_\_\_

**Comments**

\_\_\_\_\_  
\_\_\_\_\_



**TASK BCM-03-07-AUX: Tie Various Knots, Hitches, and Bends**

**Reference** a. *Boat Crew Handbook – Seamanship Fundamentals, BCH16114.4 (series)*

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

**Standards** In response to the mentor, the trainee must tie an assortment of knots, hitches, and bends quickly and confidently. The bitter ends must be of sufficient length to preclude the knot from working loose. All knots, bends and hitches must hold fast under a strain.

Performance Criteria	Completed (Initials)
1. Tie a square (reef) knot.	_____
2. Put a temporary eye in towline, using a bowline.	_____
3. Untie knot by “breaking” the bowline.	_____
4. Secure line to a rail using a clove hitch and a slip clove hitch.	_____
5. Secure clove hitch by using two half hitches.	_____
6. Attach heaving line to a towline or bridle using a sheet bend, snap hook, bowline and/or clove hitch with two half hitches.	_____
7. Add length of mooring line to a towline using a double becket bend.	_____
8. Secure log, board, or other rough surfaced object, by using a timber hitch and two half hitches.	_____
9. Tie bowline around an object.	_____

**Mentor** \_\_\_\_\_ **Date** \_\_\_\_\_

**Comments**  
 \_\_\_\_\_  
 \_\_\_\_\_



**TASK BCM-03-08-AUX: Secure Lines to Cleats, Bitts, and Posts**

**Reference**

a. *Boat Crew Handbook – Seamanship Fundamentals, BCH16114.4 (series)*

**Conditions**

Task should be performed ashore, at the dock, or underway. Trainee must accomplish task without prompting or use of a reference.

**Standards**

In response to the mentor, the trainee must tie an assortment of knots, hitches, and bends quickly and confidently. The bitter ends must be of sufficient length to preclude the knot from working loose. All knots, bends and hitches must hold fast under a strain.

Performance Criteria	Completed (Initials)
1. Secure a line to a cleat: <ul style="list-style-type: none"> <li>a. Locate all standard cleats on boat.</li> <li>b. Place complete turn around the base of the cleat.</li> <li>c. Lead line over the top of the cleat and around the horns to form a figure eight.</li> <li>d. Secure additional figure eights until the cleat is secured with at least three figure eights.</li> </ul>	_____
2. Make fast a line to a mooring cleat: <ul style="list-style-type: none"> <li>a. Locate mooring cleats on dock.</li> <li>b. Feed eye of the line through the opening in the base of the cleat.</li> <li>c. Loop line back over horns and pull taut.</li> </ul>	_____
3. Make fast a line to a bitt (if available): <ul style="list-style-type: none"> <li>a. Identify all bitts on boat.</li> <li>b. Make a complete turn around the near horn.</li> <li>c. Make three or more figure eights around both horns.</li> </ul>	_____
4. Secure a line to a Samson post (if available): <ul style="list-style-type: none"> <li>a. Identify Samson post on boat.</li> <li>b. Make complete round turn around the base of the Samson post.</li> <li>c. Make several figure eights around horns of the post.</li> </ul>	_____

**Mentor**

**Date**

\_\_\_\_\_

**Comments**

\_\_\_\_\_  
\_\_\_\_\_





**TASK BCM-03-09-AUX: State the Types of Breaking Seas, Characteristics, and Causes**

**References**

a. *Boat Crew Handbook – Seamanship Fundamentals, BCH16114.4*

**Conditions**

Task should be performed ashore, at the dock, or underway. Trainee must accomplish task without prompting or use of a reference.

**Standards**

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

Performance Criteria	Completed (Initials)
1. State differences between deep-water waves and near shore breaking waves.	_____
2. State the effects of wind on sea conditions.	_____
3. State the effects of current and tidal conditions on breaking seas.	_____

**Mentor** \_\_\_\_\_

**Date** \_\_\_\_\_

**Comments**

\_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_



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## Section D. Boat Handling

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### Introduction

The following are objectives of Section D:

- (01) **Define** the common terms used for identification aboard a Coast Guard boat.
- (02) **Identify** and **State** the purpose or use of the different fittings and equipment located on a Coast Guard boat.
- (03) **Demonstrate** the ability to participate in the common watches performed aboard Coast Guard boats.

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### In this Section

This Section contains the following tasks:

Task Number	Task	See Page
BCM-04-01-AUX	Rig Fenders to Side of the Boat	2-43
BCM-04-02-AUX	Assist in Anchoring the Boat	2-43
BCM-04-03-AUX	Assist in Weighing the Boat's Anchor	2-44
BCM-04-04-AUX	Identify the Common Navigation Lights Displayed by Ships and Boats	2-45
BCM-04-05-AUX	Identify Common Sound Signals Used by Ships and Boats	2-46
BCM-04-06-AUX	Identify Maritime Distress Signals	2-47
BCM-04-07-AUX	Stand a Lookout Watch	2-48
BCM-04-08-AUX	(Boat Handling) Act as a Helmsman and Steer a Compass Course	2-49
BCM-04-09-AUX	Get the Boat Away from a Pier/Dock and Secure the Deck	2-50
BCM-04-10-AUX	Prepare for, Moor and Secure the Boat to a Pier/Dock	2-51



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

**Reference** a. *Boat Crew Handbook – Seamanship Fundamentals, BCH16114.4 (series)*

**Conditions** Task should be performed at any time onboard an Auxiliary facility. Trainee must accomplish task without prompting or use of a reference.

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

Performance Criteria	Completed (Initials)
1. Tie fenders in place using a slip clove hitch.	_____
2. Position all fenders appropriately for width and height of pilings and piers.	_____
3. Place fenders at contact points between boat and pier, dock, or another boat.	_____

**Mentor** \_\_\_\_\_ **Date** \_\_\_\_\_

**Comments** \_\_\_\_\_

\_\_\_\_\_

**TASK BCM-04-02-AUX: Assist in Anchoring the Boat**

**Reference** a. *Boat Crew Handbook – Seamanship Fundamentals, BCH16114.4 (series)*

**Conditions** Task should be performed at any time, onboard an Auxiliary facility. Trainee must accomplish task without prompting or use of a reference.

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

Performance Criteria	Completed (Initials)
1. State the main parts of the anchor.	_____
2. State the equipment associated with anchoring.	_____
3. Establish communications with Coxswain during the evolution.	_____
4. Crewmember request from Coxswain amount of anchor line needed and type of bottom.	_____
5. Break out and attach anchor line to anchor.	_____
6. Deploy anchor by safest means.	_____
7. Inform Coxswain of direction line tending at all times as anchor line pays out (veers).	_____
8. Secure anchor line to bitt or cleat at Coxswain’s command.	_____
9. Explain how to apply chafing gear.	_____
10. Describe the duties of the anchor watch.	_____

**Mentor** \_\_\_\_\_ **Date** \_\_\_\_\_

**Comments** \_\_\_\_\_

\_\_\_\_\_



**TASK BCM-04-03-AUX: Assist in Weighing the Boat’s Anchor**

**Reference** a. *Boat Crew Handbook – Seamanship Fundamentals, BCH16114.4 (series)*

**Conditions** Task should be performed at any time onboard an Auxiliary facility while weighing the boat’s anchor. Trainee must accomplish task without prompting or use of a reference.

**Standards** In response to the mentor, the trainee must demonstrate, in proper sequence, the method for handling the boat’s ground tackle to weigh the boat’s anchor.

Performance Criteria	Completed (Initials)
1. Establish communications with Coxswain.	_____
2. Remove slack from anchor line as boat moves ahead.	_____
3. Stow anchor line safely away from work area, immediately as it’s brought aboard.	_____
4. Signal to Coxswain when the anchor line is up and down.	_____
5. Break anchor free from bottom (if anchor does not break free, trainee makes fast anchor line to bitt while Coxswain moves the boat ahead to break it free).	_____
6. Determine if anchor is clear and clean.	_____
7. Haul anchor aboard the boat.	_____
8. Make up and stow all equipment.	_____

**Mentor** \_\_\_\_\_ **Date** \_\_\_\_\_

**Comments**  
\_\_\_\_\_  
\_\_\_\_\_



**TASK BCM-04-04-AUX: Identify the Common Navigation Lights Displayed by Ships and Boats**

**References**

- a. Promulgation of the Navigation Rules and Regulations Handbook
- b. *Chapman Piloting*

**Conditions**

Task should be performed at any time ashore, at the dock or underway Trainee must identify the lights, day shapes, aspect and type of vessel when presented with pictures or actual lights or day shapes by the mentor. Trainee must accomplish the task without prompting or use of a reference.

**Standards**

In response to being presented with a picture or actual light/day shape by the mentor, the trainee must, without error, identify verbally.

Performance Criteria	Completed (Initials)
1. State the location, color, and arc of visibility of the following navigation lights: <ul style="list-style-type: none"> <li>a. Mastheads</li> <li>b. Side lights</li> <li>c. Stern light</li> <li>d. Towing light(s)</li> <li>e. All around light</li> <li>f. Flashing light</li> <li>g. Special flashing light</li> <li>h. Combination lantern/lights (sailing vessel/boats)</li> <li>i. Forward and aft anchor lights</li> </ul>	_____
2. Identify the lights and day shapes (as applicable) for the following vessels: <ul style="list-style-type: none"> <li>a. Power driven vessel over 50 meters in length</li> <li>b. Power driven vessel under 50 meters in length</li> <li>c. Not under command</li> <li>d. Restricted in ability to maneuver</li> <li>e. Constrained by draft</li> <li>f. Fishing</li> <li>g. Sailing</li> <li>h. Towing</li> <li>i. Pilot boat</li> </ul>	_____
3. State when boats are required to display navigational lights and day shapes.	_____

**Mentor**

**Date**

**Comments**

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**TASK BCM-04-05-AUX: Identify Common Sound Signals Used by Ships and Boats**

**References**

- a. Promulgation of the Navigation Rules and Regulations Handbook
- b. *Chapman Piloting*

**Conditions**

Task should be performed at any time ashore, at the dock or underway, naming the signals listed when presented with an imitated or actual sound signal by the mentor. Trainee must accomplish task without prompting or use of a reference.

**Standards**

In response to the mentor, the trainee must, without error, identify verbally the sound signals listed below.

Performance Criteria	Completed (Initials)
1. State the characteristics of a short blast.	_____
2. State the characteristics of a prolonged blast.	_____
3. Identify common boat sound signal equipment.	_____
4. Identify sound signals for vessels in sight of one another (inland & international) <ul style="list-style-type: none"> <li>a. Alteration of course to STBD</li> <li>b. Alteration of course to PORT</li> <li>c. Overtaking and agreement signal</li> <li>d. Operating astern propulsion</li> </ul>	_____
5. Identify the danger signal (inland & international).	_____
6. Identify sound signals for vessels during periods of restricted visibility (inland & international). <ul style="list-style-type: none"> <li>a. Underway, making way</li> <li>b. Underway, not making way</li> <li>c. Towing</li> <li>d. Vessel being towed and manned.</li> <li>e. At anchor</li> <li>f. Pilot boat</li> </ul>	_____

**Mentor** \_\_\_\_\_

**Date** \_\_\_\_\_

**Comments**

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\_\_\_\_\_  
\_\_\_\_\_



**TASK BCM-04-06-AUX: Identify Maritime Distress Signals**

**References**

- a. Promulgation of the Navigation Rules and Regulations Handbook
- b. *47 CFR 80.317 - Radiotelegraph and radiotelephone alarm signals.*

**Conditions**

Task should be performed at any time ashore, at the dock, or underway. Trainee must accomplish task without prompting or use of a reference.

**Standards**

In response to the mentor, the trainee must, without error, identify and describe at least six of the seventeen accepted maritime distress signals.

Performance Criteria	Completed (Initials)
1. Identify and describe at least 6 of the 17 accepted maritime distress signals.	_____

**Mentor**

**Date**

**Comments**

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**TASK BCM-04-07-AUX: Stand a Lookout Watch**

**References**

- a. *Boat Crew Handbook – Boat Operations, BCH16114.1 (series)*
- b. Promulgation of the Navigation Rules and Regulations Handbook

**Conditions**

Task should be performed while underway, by pointing and verbal identification of the range and relative bearing to objects. Trainee must accomplish task without prompting or use of a reference.

**Standards**

In response to the coxswain, the trainee must, without error, identify objects, state relative bearing and range. All reports must be repeated until the coxswain acknowledges the report. The coxswain along with the mentor should supervise the trainee.

Performance Criteria	Completed (Initials)
1. State importance of a lookout.	_____
2. State lookout assignment policies.	_____
3. State boat characteristics and operations that may limit lookout visibility, and how these risks are mitigated.	_____
4. State the effects of dark adaptation on a lookout’s vision.	_____
5. State off-center vision and how it may be used to see objects at night.	_____
6. Identify relative bearings.	_____
7. State lookout responsibilities during man overboard.	_____
8. Recognize and report the following situations: a. Meeting (head on) [Rule 14], b. Crossing [Rule 15], c. Overtaking [Rule 13].	_____
9. Identify and report the range and relative bearing of different type vessels, common to local area.	_____
10. Identify and report the relative bearing and position angle of aircraft.	_____
11. Identify buoys, fixed structures, and other navigational aids.	_____
12. Identify sound encountered (such as, whistles, bells, gongs, audio aids to navigation).	_____
13. Demonstrate the use of binoculars and scanning techniques.	_____

**Mentor** \_\_\_\_\_

**Date** \_\_\_\_\_

**Comments**

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\_\_\_\_\_





**TASK BCM-04-08-AUX: (Boat Handling) Act as a Helmsman and Steer a Compass Course**

**Reference**  
 a. *Boat Crew Handbook – Navigation and Piloting, BCH16114.3 (series)*  
 b. *Coast Guard Navigation Standards Manual, Enclosure 6, COMDTINST 3520.2 (series)*

**Conditions**  
 Task should be performed underway in calm conditions. Trainee must accomplish task without prompting or use of a reference.

**Standards**  
 In response to the coxswain’s command, the trainee must repeat and perform various helm, throttle, and shift commands. All commands must be repeated (in a loud clear voice) until acknowledged by the coxswain. All courses must be maintained to within 5° of ordered course. The coxswain along with the mentor should supervise the trainee.

Performance Criteria	Completed (Initials)
1. Checked with coxswain for any special instructions and course to steer.	_____
2. State meaning of standard helm commands, including rudder, throttle, joystick and/or tiller commands as appropriate for boat type.	_____
3. Emergency Cutoff Switch (ECOS) worn at all times by helmsman, if installed	_____
4. Steer course and maintain speed or RPMs ordered by the Coxswain.	_____
5. Maintain course to within $\pm 5^\circ$ for at least 3 min of a coxswain’s ordered course.	_____
6. Alter course (at least $20^\circ$ ) to new course on Coxswain’s command.	_____
7. Steady-up on new course, reported, and hold to within $\pm 5^\circ$ of ordered course.	_____
8. Repeated all commands in a loud voice to the coxswain until acknowledged.	_____
9. Monitor and report engine(s) gauge(s), depth sounder, and other electronic gear as available.	_____
10. Keep careful watch of the surrounding area.	_____

**Mentor** \_\_\_\_\_ **Date** \_\_\_\_\_

**Comments**  
 \_\_\_\_\_  
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**TASK BCM-04-09-AUX: Get the Boat Away from a Pier/Dock and Secure the Deck**

**References**

a. *Boat Crew Handbook – Seamanship Fundamentals, BCH16114.4 (series)*

**Conditions**

Task should be performed while getting underway in calm to moderate conditions. Trainee must accomplish task without prompting or use of a reference.

**Standards**

In response to the coxswain’s command, the trainee must repeat and perform various line-handling commands. All commands must be repeated (in a loud clear voice) until acknowledged by the coxswain. After boat clears the dock, stow all lines and fenders. The coxswain along with the mentor should supervise the trainee.

Performance Criteria	Completed (Initials)
1. Acknowledge all commands from the Coxswain.	_____
2. Remove mooring lines from pier as directed by Coxswain.	_____
3. Inform coxswain when lines are onboard.	_____
4. Retrieve all fenders, when directed by the coxswain.	_____
5. Coiled and stowed lines (neat and accessible).	_____
6. Stowed fenders when directed by the coxswain.	_____

**Mentor** \_\_\_\_\_

**Date** \_\_\_\_\_

**Comments**

\_\_\_\_\_  
 \_\_\_\_\_



**TASK BCM-04-10-AUX: Prepare for, Moor and Secure the Boat to a Pier/Dock**

**References** a. *Boat Crew Handbook – Seamanship Fundamentals, BCH16114.4 (series)*  
 b. *Chapman Piloting*

**Conditions** Task should be performed at any time on board an Auxiliary facility. Trainee must accomplish task without prompting or use of a reference. The coxswain who will be maneuvering the boat should supervise trainee.

**Standards** In response to the mentor, the trainee must, under the direction of the coxswain of the boat, demonstrate the correct method for securing the boat to a dock or pier using its mooring lines. The coxswain along with the mentor should supervise the trainee.

Performance Criteria	Completed (Initials)
1. Fenders properly spaced for height of dock or boat or pilings.	_____
2. Did not use hands or feet to fend off the dock.	_____
3. At the direction of the coxswain, properly placed mooring lines on dock cleat, post, or ring and tend them on the boat.	_____
4. On coxswain's command, adjusted all lines and made fast all lines to cleats (posts or rings).	_____
5. Demonstrated how to dip a mooring line	_____

**Mentor** \_\_\_\_\_ **Date** \_\_\_\_\_

**Comments** \_\_\_\_\_

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## Section E. Communications

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### Introduction

The following are objectives of Section E:

- (01) **State** radio communications security policy.
- (02) **Demonstrate** the ability to operate a VHF-FM radiotelephone and the SSB-HF transceiver.
- (03) **Demonstrate** the ability to use the radiotelephone to give a position or operations report.

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### In this Section

This Section contains the following tasks:

<b>Task Number</b>	<b>Task</b>	<b>See Page</b>
BCM-05-01-AUX	<a href="#">Operate a VHF-FM Radiotelephone</a>	<a href="#">2-53</a>
BCM-05-02-AUX	<a href="#">Use the VHF-FM Radiotelephone to Give an Operations and Position Report</a>	<a href="#">2-54</a>
BCM-05-03-AUX	<a href="#">State General Communications Policy and Doctrine</a>	<a href="#">2-55</a>



**TASK BCM-05-01-AUX: Operate a VHF-FM Radiotelephone**

**References**

- a. *Communications Manual, COMDTINST M2000.3 (series)*
- b. *Radiotelephone Handbook CGTTP 6-01.1*
- c. *Manufacturer's Operators Manual*

**Conditions**

Task should be performed at any time underway or at the dock. Trainee must accomplish task without prompting or use of a reference.

**Standards**

In response to the mentor, the trainee must, without error, identify the different operating parts of the radio and operate the radio.

Performance Criteria	Completed (Initials)
1. Identify VHF-FM transceiver and speakers.	_____
2. Identify breaker that energizes radio – if applicable.	_____
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. Demonstrate knowledge and use of "Pro-words".	_____
9. Demonstrate knowledge and use of phonetic alphabet.	_____
10. ID High & Low function. Explain use.	_____
<b>NOTE</b> No radio checks are permitted on the International VHF distress and calling frequency, Channel 16.	

**Mentor** \_\_\_\_\_

**Date** \_\_\_\_\_

**Comments** \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_



**TASK BCM-05-02-AUX: Use the VHF-FM Radiotelephone to Give an Operations and Position Report**

**References**

- a. *Auxiliary Operations Process Guide: Volume I - General/Surface, AOPG 16798.31 (series)*
- b. *Communications Manual, COMDTINST M2000.3 (series)*
- c. *Radiotelephone Handbook CGTTP 6-01.1*

**Conditions**

Task should be performed at any time underway or at the dock. Message to be sent should be composed by the trainee and the mentor prior to the beginning of the task. Trainee must accomplish task without prompting or use of a reference.

**Standards**

In response to the mentor, the trainee must transmit message traffic using proper radiotelephone procedures, including pro-words, and phonetic alphabet.

Performance Criteria	Completed (Initials)
1. Turn on and set radio to an Auxiliary or Coast Guard working frequency.	_____
2. Establish communication using an Auxiliary or Coast Guard working frequency.	_____
3. Ensure that Channel 16 (emergency frequency) is being monitored at the same time.	_____
4. Send status of operations and position.	_____
5. Sign off using proper prowords at conclusion of the message.	_____

**Mentor** \_\_\_\_\_

**Date** \_\_\_\_\_

**Comments**

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\_\_\_\_\_  
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**TASK BCM-05-03-AUX: State General Communications Policy and Doctrine**

- References**
- a. *Auxiliary Operations Process Guide: Volume I - General/Surface, AOPG 16798.31 (series)*
  - b. *Communications Manual, COMDTINST M2000.3 (series)*
  - c. *Radiotelephone Handbook CGTTP 6-01.1*
  - d. *Radiotelephone Handbook CGTTP 6-01.2*
  - e. *Manufacturers Operating Instructions.*

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

**Standards** In response to the mentor, the trainee must describe, without error, the following criteria in accordance with the above reference.

Performance Criteria	Completed (Initials)
1. State secure radio communications policy in accordance with reference (a) - if applicable.	_____
2. State the visual and audible indicators of a radio transceiver operating in encrypted and non-encrypted modes - if applicable.	_____
3. State policy on cell phone / smart phone usage, texting, and web surfing in accordance with reference (b).	_____
4. State position and status report policy in accordance with reference (b) and local policy.	_____
5. State lost communications procedures in accordance with reference (b).	_____

**Mentor** \_\_\_\_\_ **Date** \_\_\_\_\_

**Comments**  
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## Section F. Navigation

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### Introduction

The following are objectives of Section F:

- (01) **Demonstrate** the use of paper and electronic nautical charts.
- (02) **Demonstrate** the ability to identify navigation and general landmark symbols on paper and electronic nautical charts.
- (03) **Demonstrate** the ability to plan a voyage by laying down a track line across safe water and through marked channels using paper based and electronic charting systems.
- (04) **Demonstrate** the ability to take a fix and plot a position on a paper chart.
- (05) **Demonstrate** ability to calculate actual speed of boat, determine amount of water beneath keel, and recommend adjustments to boat's course and speed to match voyage plan at specified intervals.

### In this Section

This Section contain the following tasks:

Task Number	Task	See Page
BCM-06-01-AUX	Identify the Symbols, Abbreviations and Basic Parts of a Nautical Chart	2-57
BCM-06-02-AUX	Identify Common Aids to Navigation Used for Inland and Coastal Piloting	2-58
BCM-06-03-AUX	Identify Local Landmarks on a Nautical Chart	2-59
BCM-06-04-AUX	Plot a Position Using Latitude and Longitude	2-60
BCM-06-05-AUX	Plot a Magnetic Course on a Nautical Chart	2-61
BCM-06-06-AUX	Measure Distance on a Nautical Chart	2-62
BCM-06-07-AUX	Compute Time, Speed, and Distance	2-63
BCM-06-08-AUX	Determine the Depth of Water Using a Depth Sounder (if equipped)	2-64
BCM-06-09-AUX	Operate RADAR (If equipped)	2-65
BCM-06-10-AUX	Operate and obtain a Fix Using GPS (If Equipped)	2-66
BCM-06-11-AUX	Operate Electronic Charting System (If Equipped)	2-67





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

**Reference**

- a. *Boat Crew Handbook – Navigation and Piloting, BCH16114.3(series)*
- b. *Nautical Chart Symbols, Abbreviations, and Terms, Chart No. 1*

**Conditions**

Task should be performed at any time ashore, at the dock or underway, using any paper chart. A local paper chart of the operating area should be used if available. Trainee must accomplish task without prompting or use of a reference.

**Standards**

In response to the mentor, the trainee must identify the basic parts, symbols, and abbreviations found on a chart of the local operating area.

Performance Criteria	Completed (Initials)
1. Identify the longitude and longitude scales.	_____
2. Identify the Nautical Mile (NM) and yards (YDs) scale and describe the relationship between 1 NM, 1 minute of latitude and approximately 2025 Yds.	_____
3. Identify 1 NM using the <i>latitude</i> scale.	_____
4. Identify the chart coordinate format as degrees-minutes-decimal minutes <i>or</i> degree-minutes-seconds.	_____
5. Identify the scale of a chart.	_____
6. Identify datum used for water depths (tidal datum).	_____
7. Identify sounding units of measure (meters/feet/fathoms).	_____
8. Identify the depth conversion scale and the relationship between meters, feet, and fathoms.	_____
9. Identify depth curves (contours).	_____
10. Identify shading colors and stated meaning of each.	_____
11. Identify datum used for overhead clearances of bridges, cables, etc.	_____
12. Identify horizontal and vertical clearances of overhead bridges and cables.	_____
13. Identify the general information block.	_____
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 obstruction.	_____
16. Identify latest changes to the chart determined by Notice to Mariners and Local Notice to Mariners.	_____

**Mentor** \_\_\_\_\_

**Date** \_\_\_\_\_

**Comments**

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 \_\_\_\_\_  
 \_\_\_\_\_



**TASK BCM-06-02-AUX: Identify Common Aids to Navigation Used for Inland and Coastal Piloting**

**References**

- a. *Boat Crew Handbook – Navigation and Piloting, BCH16114.3(series)*
- b. *Nautical Chart Symbols, Abbreviations, and Terms, Chart No.*

**Conditions**

Task should be performed at any time ashore, at the dock or underway, using any paper chart. A local paper chart of the operating area should be used if available. Trainee must accomplish task without prompting or use of a reference.

**Standards**

In response to the mentor, the trainee must identify and point out common aids to navigation used in small boat piloting. Trainee must correctly identify on the chart those objects pointed out. Trainee must discuss each aid to navigation listed below even if not in the local area.

Performance Criteria	Completed (Initials)
1. State the key features of IALA Maritime Buoyage Region A or B (area, ATON colors, numbering, etc.).	_____
2. State the difference between cardinal and lateral marks, and where they are encountered.	_____
3. Identify port and starboard marks.	_____
4. Identify preferred channel marks.	_____
5. Identify cardinal marks.	_____
6. Identify safe water marks.	_____
7. Identify isolated danger marks.	_____
8. Identify special purpose marks.	_____
9. Identify mooring buoys.	_____
10. Identify beacons.	_____
11. Identify ICW ATON and state waterways markings.	_____
12. Identify ranges and state their purpose.	_____
13. Identify sound signals used on ATON, including BELL, GONG, and WHISTLE.	_____
14. Identify light patterns used on ATON to include flashing, quick flashing, morse ALFA, ISO Phase, etc.	_____
15. While underway, identify by type, number, and characteristic, the primary aids used in the local area of operations.	_____

**Mentor**

**Date**

\_\_\_\_\_

**Comments**

\_\_\_\_\_

\_\_\_\_\_



**TASK BCM-06-03-AUX: Identify Local Landmarks on a Nautical Chart**

**References**

- a. *Boat Crew Handbook – Navigation and Piloting, BCH16114.3(series)*
- b. *Nautical Chart Symbols, Abbreviations, and Terms, Chart No. 1*

**Conditions**

Task should be performed at any time ashore, at the dock or underway, using a local paper chart of the operating area if available. Trainee must accomplish task without prompting or use of a reference.

**Standards**

In response to the mentor, the trainee must point out prominent landmarks. Trainee must correctly identify on the chart those objects pointed out.

Performance Criteria	Completed (Initials)
1. Identify all major piers and docks in the area.	_____
2. Identify any prominent dangerous submerged or semi-submerged rocks, shoals, and structures.	_____
3. Identify all prominent submerged or partially submerged wrecks in the area.	_____
4. Identify all prominent antennas and towers used as navigational landmarks in the area.	_____
5. Identify all prominent buildings and structures used as navigational landmarks in the area.	_____
6. Identify all prominent landmarks in the area.	_____
7. Identify all bridges and their types in the area.	_____

**Mentor** \_\_\_\_\_

**Date** \_\_\_\_\_

**Comments**

\_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_



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

**References**

a. *Boat Crew Handbook – Navigation and Piloting, BCH16114.3(series)*

**Conditions**

Trainee shall be given a paper chart (scale 1:80,000 or larger), plotting gear, and five LAT/LONG positions. Plot and label the five positions on a paper chart without prompting or use of a reference.

**Note to mentor: If applicable to operational area, give positions that will be used in later tasks to form a navigation tracklike.**

**Standards**

Positions must be accurate within 100 yards.

Performance Criteria		Completed (Initials)
Position	Given Coordinates	
A	<u>LAT</u>	_____
	<u>LONG</u>	
B	<u>LAT</u>	_____
	<u>LONG</u>	
C	<u>LAT</u>	_____
	<u>LONG</u>	
D	<u>LAT</u>	_____
	<u>LONG</u>	
E	<u>LAT</u>	_____
	<u>LONG</u>	

**Mentor**

**Date**

**Comments**

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**TASK BCM-06-05-AUX: Plot a Magnetic Course on a Nautical Chart**

**References**

a. *Boat Crew Handbook – Navigation and Piloting, BCH16114.3(series)*

**Conditions**

Trainee shall be given plotting gear, the paper chart used in TASK BCM-06-04-AUX with the five waypoint positions plotted (and verified correct). Trainee must accomplish task without prompting or use of a reference.

**Standards**

Plot, without error, the track line legs between positions A and E, then label each track leg with magnetic course. Courses must be accurate to within 3°.

Performance Criteria			Completed (Initials)
Position	Given Coordinates	Magnetic Course (to next waypoint)	
A	<u>LAT</u>		_____
	<u>LONG</u>		
B	<u>LAT</u>		_____
	<u>LONG</u>		
C	<u>LAT</u>		_____
	<u>LONG</u>		
D	<u>LAT</u>		_____
	<u>LONG</u>		
E	<u>LAT</u>	N/A <i>Next Coordinates not specified.</i>	
	<u>LONG</u>		

**Mentor** \_\_\_\_\_

**Date** \_\_\_\_\_

**Comments**

\_\_\_\_\_  
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**TASK BCM-06-06-AUX: Measure Distance on a Nautical Chart**

**References**

a. *Boat Crew Handbook – Navigation and Piloting, BCH16114.3(series)*

**Conditions**

Trainee shall be given plotting gear, the paper chart used in TASK BCM-06-04-AUX with the five waypoint positions and magnetic courses plotted (and verified correct). Distances shall be consistently labeled using nautical miles or yards, as appropriate for the scale of chart in use. Trainee must accomplish task without prompting or use of a reference.

**Standards**

Trainee must, without error, measure and label the distances indicated in the below criteria. Distance must be accurate to within 200 yards (.1NM).

Performance Criteria	Completed (Initials)
Distance from A to B = ____ _	_____
Distance from B to C = ____ _	_____
Distance from C to D = ____ _	_____
Distance from D to E = ____ _	_____

**Mentor**

**Date**

**Comments**

\_\_\_\_\_

\_\_\_\_\_

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**TASK BCM-06-07-AUX: Compute Time, Speed, and Distance**

**References**

a. *Boat Crew Handbook – Navigation and Piloting, BCH16114.3(series)*

**Conditions**

Trainee shall be given a paper chart, nautical slide rule, and the positions and distance calculated in TASK BCM-06-06-AUX (verified correct). All answers should be given to the nearest tenth of an hour, knot, or nautical mile as indicated in the criteria. Trainee must accomplish task without prompting or use of a reference.

**Standards**

The trainee must, without error, calculate the answer indicated for all criteria.

**NOTE**

The Nautical Slide Rule or calculator may be used for criteria 1 through 4. In criteria 5 and 6, calculations are done mentally; use of the Nautical slide Rule or calculator is not allowed.

Performance Criteria	Completed (Initials)
1. Calculate the time, in minutes, required to travel from point A to point B at 8 KTS.	_____
2. Calculate the time, in hours, required to travel from point A to point E at 8 KTS.	_____
3. Calculate the speed, in knots, required to travel from point A to point B in 18 minutes.	_____
4. Calculate the speed, in knots, required to travel from point A to point E in 90 minutes.	_____
5. Apply 3 Minute Rule: measure from point B to point C in YARDS, then state speed required to transit from point B to point C in three minutes.	_____
6. Apply 6 Minute Rule: measure from point C to point D in NM, then state speed required to transit from point C to point D in six minutes.	_____

**Mentor** \_\_\_\_\_

**Date** \_\_\_\_\_

**Comments**

\_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_



**TASK BCM-06-08-AUX: Determine the Depth of Water Using a Depth Sounder (if equipped)**

**NOTE**

Task **MAY BE DEFFERED** if no installed Depth Sounder.

**References**

- a. *Boat Crew Handbook – Navigation and Piloting, BCH16114.3(series)*
- b. *Applicable Fathometer / Depth Sounder Operator's Manual*

**Conditions**

Task should be performed at any time, while underway. Trainee must accomplish task without prompting or use of a reference.

**Standards**

In response to the mentor, the trainee must, without error, identify different parts of the depth sounder, operate various functions, report sounding and determine if sounding agrees with charted depth. .

Performance Criteria	Completed (Initials)
1. Energize depth sounder, and related equipment as required.	_____
2. Identify location of depth sounder depth readout(s).	_____
3. Adjust illumination, backlighting, and contrast as appropriate.	_____
4. Using depth sounder depth readout, report the depth and whether sounding agrees with charted depth (allowing for state of tide). Mentor will provide fix position and verify sounding.	_____

**Mentor** \_\_\_\_\_

**Date** \_\_\_\_\_

**Comments**

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\_\_\_\_\_  
\_\_\_\_\_





**TASK BCM-06-09-AUX: Operate RADAR (If Equipped)**

**NOTE**



Task **MAY BE DEFFERED** if no installed radar.

- References**
- a. *Boat Crew Handbook – Navigation and Piloting, BCH16114.3(series)*
  - b. *Nautical Chart Symbols, Abbreviations, and Terms, Chart No. 1*
  - c. *RADAR Operator's Manual*

**Conditions** Task should be performed at any time, while underway. All of the steps must be accomplished using the installed radar. Trainee must accomplish task without prompting or use of a reference.

**Standards** In response to the mentor, the trainee must, without error, correctly demonstrate the task criteria.

Performance Criteria	Completed (Initials)
1. Energize radar and related equipment and allow unit to warm up.	_____
2. Identify the following RADAR display graphics: a. Heading (indicator for True and Magnetic) b. Cursor, Cursor readout	_____
3. Demonstrate the use of all presentation modes available, including description of when each mode would be used. a. Head Up b. Course Up c. North Up	_____
4. Demonstrate adjusting range scale for long range scanning and close-in target detection.	_____
5. Report range and bearing to prominent charted landmarks.	_____
6. Report range and bearing to charted aids to navigation.	_____
7. Report range and bearing to another vessel.	_____

**Mentor** \_\_\_\_\_ **Date** \_\_\_\_\_

**Comments** \_\_\_\_\_



**TASK BCM-06-10-AUX: Operate and obtain a Fix Using GPS (If Equipped)**

**NOTE** *~*

Task **MAY BE DEFFERED** if no installed GPS.

**References**

- a. *Boat Crew Handbook – Navigation and Piloting, BCH16114.3(series)*
- b. *Manufacturer’s Operator Manual*

**Conditions**

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

**Standards**

In response to the mentor, the trainee must correctly demonstrate the use of the GPS receiver.

Performance Criteria	Completed (Initials)
1. Energize the GPS and associated equipment as needed.	_____
2. Adjust screen for daytime and nighttime viewing.	_____
3. Report boat’s navigation data (Position, COG/SOG, etc.).	_____
4. Plot latitude and longitude position on paper chart if chart available for area.	_____

**Mentor** \_\_\_\_\_

**Date** \_\_\_\_\_

**Comments**

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_



**TASK BCM-06-11-AUX: Operate Electronic Charting System (If Equipped)**

**NOTE** *☞*

Task **MAY BE DEFFERED** if no installed ECS.

**Reference**

- a. *Boat Crew Handbook – Navigation and Piloting, BCH16114.3(series)*
- b. *Electronic Charting System Operation Manual*
- c. *Local Command Navigation Standards*

**Conditions**

Task should be performed at any time. except Task #7 must be performed underway. Some features may not be available in all charting systems.

**Standards**

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

Performance Criteria	Completed (Initials)
1. Energize the chart plotter and associated equipment as needed.	_____
2. Adjust screen for daytime and nighttime viewing.	_____
3. Display electronic chart.	_____
4. Compare electronic chart symbols (ATON, etc.) to paper chart symbols.	_____
5. Identify boat's position symbol, to include heading, course/speed vector.	_____
6. Identify boat's navigation data (Position, COG/SOG, etc.)	_____
7. Provide navigation recommendations from an active route. (Course to steer, time to next waypoint, etc.).	_____

**Mentor** \_\_\_\_\_

**Date** \_\_\_\_\_

**Comments**

\_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_



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## Section G. Mission-Oriented Operations

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### Introduction

The following are objectives of Section G:

- (01) **Demonstrate** actions to take during a man overboard emergency.
- (02) **Demonstrate** procedures to signal an emergency.
- (03) **Demonstrate** procedures for towing astern and alongside.
- (04) **Demonstrate** procedures to combat a fire onboard.

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### In this Section

This Section contains the following tasks:

<b>Task Number</b>	<b>Task</b>	<b>See Page</b>
BCM-07-01-AUX	Participate in a Man Overboard Evolution (Direct Pickup)	2-69
BCM-07-02-AUX	Participate in a Man Overboard Evolution (Indirect Pickup)	2-70
BCM-07-03-AUX	Stand a Tow Watch	2-71
BCM-07-04-AUX	Bend a Heaving Line to a Bridle and Pass the Heaving Line to Another Boat	2-72
BCM-07-05-AUX	Pass a Towline to Another Boat	2-73
BCM-07-06-AUX	Connect a Towline to a Trailer Eyebolt Using a Skiff Hook	2-74
BCM-07-07-AUX	Execute an Alongside Tow and Moor a Towed Vessel	2-75
BCM-07-08-AUX	Identify the Different Classes of Fires; State the Fuel and Primary Extinguishing Agents Associated with Each	2-76
BCM-07-09-AUX	Locate and Identify the Firefighting Equipment Carried Onboard the Boat (as applicable)	2-76
BCM-07-10-AUX	Operate a Dry Chemical Fire Extinguisher (Simulate)	2-77
BCM-07-11-AUX	Locate and Operate the Boat's Bilge Pump	2-77
BCM-07-12-AUX	Demonstrate the Appropriate Responses to the Applicable Basic Engineering Casualty Control Exercises (BECCE)	2-78



**TASK BCM-07-01-AUX: Participate in a Man Overboard Evolution (Direct Pickup)**

**WARNING** 

UNDER NO CIRCUMSTANCES SHOULD A PERSON BE PLACED IN THE WATER.

**Reference**

a. *Boat Crew Handbook – Boat Operations, BCH16114.1 (series)*

**Conditions**

Task should be performed underway in calm sea conditions only for the recovery of an unconscious person. Given an Auxiliary facility and a certified crew operating within prescribed limitations, trainee will pick up life-like dummy (Oscar), fender, or some other floating object from the water. Trainee must accomplish the task without prompting or use of a reference. **In addition to daytime completion of this task, member’s that will be nighttime certified and performing nighttime operations, completion of this task or TASK BCM-07-02-AUX must be completed at night prior to completion of the PQS process and requesting a QE checkride.**

**Standards**

In response to the mentor, the trainee must move to his/her correct station and perform the task steps without hesitation.

**NOTE** 

**Mentor shall add “Comments” as to whether or not the member will be requesting Nighttime certification as part of their QE checkride.**

Performance Criteria	Completed (Initials)
1. Seeing a person fall overboard, keep PIW continuously in sight and sound the alarm (“MAN OVERBOARD PORT/STARBOARD SIDE”).	Day: _____ Night: _____
2. Upon command from Coxswain, crew member will deploy a floatable device (Datum).	Day: _____ Night: _____
3. Proceed immediately to assigned position keeping PIW continuously in sight.	Day: _____ Night: _____
4. Keep Coxswain informed of PIW position both vocally and by pointing (open handed).	Day: _____ Night: _____
5. Crewmember receives briefing from Coxswain on recovery procedures including which side of boat the recovery will occur	Day: _____ Night: _____
6. On command from Coxswain, proceed immediately to assigned position (should be lowest point of freeboard away from propellers) to assist with the recovery of PIW.	Day: _____ Night: _____
7. Once facility is alongside PIW, crew member must obtain positive control of PIW and communicate to Coxswain positive control	Day: _____ Night: _____
8. Pull the PIW aboard using two persons (if available).	Day: _____ Night: _____

**Mentor** \_\_\_\_\_

**Date** \_\_\_\_\_

**Comments**

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**TASK BCM-07-02-AUX: Participate in a Man Overboard Evolution (Indirect Pickup)**

**WARNING** 

UNDER NO CIRCUMSTANCES SHOULD A PERSON BE PLACED IN THE WATER

**Reference**

a. *Boat Crew Handbook – Boat Operations, BCH16114.1 (series)*

**Conditions**

Task should be performed underway in calm sea conditions only for the recovery of a conscious person. Given an Auxiliary facility and a certified crew operating within prescribed limitations, trainee will pick up life-like dummy (Oscar), fender, or some other floating object from the water. Trainee must accomplish the task without prompting or use of a reference. **In addition to daytime completion of this task, member's that will be nighttime certified and performing nighttime operations, completion of this task or TASK BCM-07-01-AUX must be completed at night prior to completion of the PQS process and requesting a QE checkride.**

**Standards**

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

**NOTE** 

**Mentor shall add "Comments" as to whether or not the member will be requesting Nighttime certification as part of their QE checkride.**

Performance Criteria	Completed (Initials)
1. Seeing a person fall overboard, keep PIW continuously in sight and sound the alarm ("MAN OVERBOARD PORT/STARBOARD SIDE").	Day: _____ Night: _____
2. Upon command from Coxswain, crew member will deploy a floatable device (Datum).	Day: _____ Night: _____
3. Proceed immediately to assigned position keeping PIW continuously in sight.	Day: _____ Night: _____
4. Keep Coxswain informed of PIW position both vocally and by pointing (open handed).	Day: _____ Night: _____
5. Crewmember receives briefing from Coxswain on recovery procedure including which side of boat the recovery will occur	Day: _____ Night: _____
6. On command from Coxswain, proceed immediately to assigned position (should be lowest point of free board away from propellers).	Day: _____ Night: _____
7. Prepare a rescue heaving line.	Day: _____ Night: _____
8. On command, throw a rescue heaving line to PIW.	Day: _____ Night: _____
9. Pull PIW alongside the boat. Pull PIW alongside the boat (Talk how this process would work while training without actual PIW).	Day: _____ Night: _____
10. Pull the PIW aboard using two persons (if available).	Day: _____ Night: _____

**Mentor** \_\_\_\_\_

**Date** \_\_\_\_\_

**Comments**

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_



**TASK BCM-07-03-AUX: Stand a Tow Watch**

**References**

a. *Boat Crew Handbook – Boat Operations, BCH16114.1 (series)*

**Conditions**

Task should be performed at any time underway on an Auxiliary facility while taking another boat in tow. Trainee must accomplish task without prompting or use of a reference.

**Standards**

In response to the mentor, the trainee must state and demonstrate how to stand a towing watch in accordance with the guidelines listed below. The coxswain along with the mentor should supervise the trainee.

Performance Criteria	Completed (Initials)
1. State predetermined danger signals/emergency communications for towed boat	_____
2. State signs of danger to watch for during a stern tow (towed boat's yawing, jerking, strain on the towline, shock loading, or too taut or slack, etc.).	_____
3. Keep both the towline and towed boat under constant observation.	_____
4. Keep chafing gear riding in place.	_____
5. Identify tow as in or out of step and proper catenary maintained.	_____
6. Report important developments to the coxswain, in a loud clear voice, and continue reporting until receiving confirmation from the coxswain.	_____
7. Keep deck (snapback danger area) clear of all unnecessary lines, gear, and personnel.	_____
8. Adjust towline at Coxswain's command.	_____
9. Maintain the tow watch until properly relieved or until tow terminated.	_____

**Mentor** \_\_\_\_\_

**Date** \_\_\_\_\_

**Comments**

\_\_\_\_\_  
 \_\_\_\_\_



**TASK BCM-07-04-AUX: Bend a Heaving Line to a Bridle and Pass the Heaving Line to Another Boat**

<b>Reference</b>	a. <i>Boat Crew Handbook – Boat Operations, BCH16114.1 (series)</i>
<b>Conditions</b>	Task should be performed at any time, onboard an Auxiliary facility. Heaving line used should be at least 75 FT long. The target boat must be at least 20 FT away from the boat at the time of the toss. Trainee must accomplish task without prompting or use of a reference.
<b>Standards</b>	In response to the mentor, 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. The coxswain along with the mentor should supervise the trainee.

Performance Criteria	Completed (Initials)
1. Wet down heaving line to relieve stiffness.	_____
2. Bend one heaving line onto the bridle eye using a bowline and second onto the throat using a clove hitch with two half hitches, or a snap hook. Use the appropriate knot to tie the heaving line to the bridle to pass.	_____
3. Make heaving line into tight coils.	_____
4. Place two-thirds of coil in casting hand.	_____
5. Instruct people on other boat to take cover.	_____
6. On command, throw heaving line over the target boat and tend.	_____

**Mentor** \_\_\_\_\_ **Date** \_\_\_\_\_

**Comments**

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_





**TASK BCM-07-05-AUX: Pass a Towline to Another Boat**

**Reference**

a. *Boat Crew Handbook – Boat Operations, BCH16114.1 (series)*

**Conditions**

Task should be performed at any time, onboard an Auxiliary facility, while taking another boat in tow. Trainee must accomplish task without prompting or use of a reference.

**Standards**

In response to the mentor, the trainee must, in accordance with the procedures listed below, perform all line handling related to passing a tow line. The coxswain along with the mentor should supervise the trainee.

Performance Criteria	Completed (Initials)
1. Using heaving lines, pass towline to the boat to be towed. Use the appropriate knot to tie the heaving line to the towline.	_____
2. On command, pass heaving line to the boat to be towed.	_____
3. Tend towline while people on other boat make attachment.	_____
4. Once towline is secure to towed vessel, on command, place a proper working turn around the towing bitt or cleat and pay out the line, as directed.	_____
5. Keep coxswain informed how the towline is tending and keep excess slack out of the water	_____
6. On command, make up the bitt or cleat.	_____
7. On command, break towing bitt down to a working turn, pay towline out.	_____
8. On command, make up the bitt or cleat.	_____
9. Rig chafing gear where needed and at the command of the coxswain.	_____

**Mentor**

**Date**

\_\_\_\_\_

**Comments**

\_\_\_\_\_  
 \_\_\_\_\_



**TASK BCM-07-06-AUX    Connect a Towline to a Trailer Eyebolt Using a Skiff Hook (If Applicable)**

<b>Reference</b>	a. <i>Boat Crew Handbook – Boat Operations, BCH16114.1 (series)</i>
<b>Conditions</b>	Task should be performed at any time, onboard an Auxiliary facility, while taking another boat in tow. Trainee must accomplish task without prompting or use of a reference.
<b>Standards</b>	In response to the mentor, 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. The coxswain along with the mentor should supervise the trainee.

Performance Criteria	Completed (Initials)
1. Prepare towing line with skiff hook assembly attached.	_____
2. Connect towline to eyebolt using skiff hook assembly, while disabled boat is off either quarter.	_____
3. Tend towline from towing boat with proper working-turn around the tow bitt or cleat.	_____
4. Keep coxswain informed how the towline is tending and keep excess slack out of the water	_____
5. On command, secure towline to the tow bitt or cleat.	_____
6. Rig chafing gear where needed and at the command of the coxswain.	_____
7. On command, break down the tow bitt or cleat to a working turn, and pay out towline.	_____
8. On command, make up tow bitt or cleat.	_____
9. Keep coxswain informed how the towline is tending and keep excess slack out of the water	_____

**Mentor** \_\_\_\_\_ **Date** \_\_\_\_\_

**Comments**  
\_\_\_\_\_  
\_\_\_\_\_



**TASK BCM-07-07-AUX: Execute an Alongside Tow and Moor a Towed Vessel**

**Reference**

a. *Boat Crew Handbook – Boat Operations, BCH16114.1 (series)*

**Conditions**

Task should be performed underway on an Auxiliary facility in calm sea conditions while transferring a boat from a stern tow to an alongside tow or free approach.

Trainee must accomplish task without prompting or use of a reference. This task should be done only in areas where alongside tows are safe and practical.

**Standards**

In response to the Coxswain, the trainee must, without prompting, correctly tend and secure the towline and sidelines in accordance with the procedures listed below. The eye end of the alongside tows should be passed to the boat being towed and direction given for its placement to persons on board the disabled boat. The coxswain along with the mentor should supervise the trainee.

Performance Criteria	Completed (Initials)
1. Participated in crew brief for alongside towing operations discussed: duties, type of towing approach, attachment points for towlines (both disabled vessel and the Auxiliary Facility), verbal commands and/or hand signals to be used, and any safety concerns.	_____
2. Rig fenders, set up lines on the side where tow will be secured and prepare walking fenders for use, if necessary	_____
3. If executing a backdown approach, upon command, walk towline forward and fake out excess line on deck, out of the way - as practical	_____
4. Upon Coxswain command, passed eye of all lines to towed boat and working ends used on the facility	_____
5. Secure other lines as directed by the Coxswain. Order should be #1 (bowline), #2 (tow strap), #4 (stern line), & #3 (backing line)	_____
6. Identify the purpose of each line (bow, stern, towing strap, back spring).	_____
7. Moored towed boat to dock or pier.	_____

**Mentor**

**Date**

\_\_\_\_\_

**Comments**

\_\_\_\_\_  
 \_\_\_\_\_



**TASK BCM-07-08-AUX: Identify the Different Classes of Fires; State the Fuel and Primary Extinguishing Agents Associated with Each**

**Reference** a. *Boat Crew Handbook – Boat Operations, BCH16114.1 (series)*

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

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

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

**Mentor** \_\_\_\_\_ **Date** \_\_\_\_\_

**Comments** \_\_\_\_\_

\_\_\_\_\_

**TASK BCM-07-09-AUX: Locate and Identify the Firefighting Equipment Carried Onboard the Boat (as applicable)**

**Reference** a. *Boat Crew Handbook – Boat Operations, BCH16114.1 (series)*

**Conditions** Task should be performed at any time, onboard an Auxiliary facility. 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 mentor, the trainee must identify all of the firefighting equipment carried on the boat and state the purpose of each piece.

Performance Criteria	Completed (Initials)
1. Identify and state the purpose of the installed fire pump and controls.	_____
2. Identify and state the purpose of the portable fire pump(s).	_____
3. Identify and state the purpose of the fixed extinguishing system.	_____
4. Identify and state the purpose of all dry chemical extinguishers.	_____

**Mentor** \_\_\_\_\_ **Date** \_\_\_\_\_

**Comments** \_\_\_\_\_

\_\_\_\_\_



**TASK BCM-07-10-AUX: Operate a Dry Chemical Fire Extinguisher (Simulate)**

**Reference** a. *Boat Crew Handbook – Boat Operations, BCH16114.1 (series)*

**Conditions** Task should be performed at any time, ashore or underway. Trainee must accomplish task without prompting or use of a reference. Actual discharge is to be simulated.

**Standards** In response to the mentor, the trainee must demonstrate the use of a dry chemical fire extinguisher in accordance with the guidelines listed below.

Performance Criteria	Completed (Initials)
1. Check fill cap for tightness (if applicable).	_____
2. Identify and explain removal of the locking or safety pin.	_____
3. State how puncture lever is pushed down, and why this is done (if applicable).	_____
4. Demonstrate approaching the simulated fire from the windward side.	_____
5. Remain at least 8 FT from the fire.	_____
6. Point extinguisher at base of fire and explain discharge procedure while sweeping the fire with the extinguishing agent.	_____

**Mentor** \_\_\_\_\_ **Date** \_\_\_\_\_

**Comments** \_\_\_\_\_

\_\_\_\_\_

**TASK BCM-07-11-AUX: Locate and Operate the Boat’s Bilge Pump**

**Reference** a. *Boat Crew Handbook – Boat Operations, BCH16114.1 (series)*

**Conditions** Task should be performed onboard an Auxiliary facility. Trainee must accomplish task without prompting. A pre-underway check-off sheet may be used. A line diagram of the equipment location on the facility may be used.

**Standards** In response to the mentor, the trainee must demonstrate the use of a boat’s bilge pumps following the steps listed below.

Performance Criteria	Completed (Initials)
1. Locate bilge pump(s).	_____
2. Confirm the correct set up of the bilge pump. Demonstrate activating and securing the facilities installed bilge pump(s)	_____
3. Monitor pump and all hoses while pumping.	_____

**Mentor** \_\_\_\_\_ **Date** \_\_\_\_\_

**Comments** \_\_\_\_\_

\_\_\_\_\_



**TASK BCM-07-12-AUX: Demonstrate the Appropriate Responses to the Applicable Basic Engineering Casualty Control Exercises (BECCE)**

<b>Reference</b>	a. <i>Boat Crew Handbook – Boat Operations, BCH16114.1 (series)</i>
<b>Conditions</b>	Task should be performed at any time, onboard an Auxiliary facility. Trainee must accomplish task without prompting or use of a reference.
<b>Standards</b>	In response to the mentor, the trainee must, without error, demonstrate the steps taken for each of the BECCEs listed.

BECCE	Completed (Initials)
<p>1. <b>Onboard fire:</b></p> <ul style="list-style-type: none"> <li>a. Sound an alarm. Any crewmember who discovers a fire or any indication of fire must sound an alarm and give a location (e.g., “FIRE, FIRE, FIRE IN THE BILGES”)</li> <li>b. Crew member will assess the situation and report to Coxswain.</li> <li>c. If engine fire, secure fuel source if safe to do so.</li> <li>d. If boat is equipped with an automatic extinguishing system, ensure it is discharging. If the system is manually operated, energize it, and check to ensure it is discharging. <b>CAUTION: Never enter a compartment after a fire until you are sure it has been properly ventilated.</b></li> <li>e. If no installed extinguishing system and if safe to do so, on coxswain command, crew member combat fire using portable fire extinguisher.</li> <li>f. Stand a fire watch, with portable fire extinguisher (if fire is extinguished).</li> <li>g. If unable to extinguish fire, prepare life raft or dingy, if available, put it over the side and inflate it, if necessary.</li> <li>h. Prepare to abandon boat. Ensure all crewmembers are accounted for and have PPE/survival gear. Discuss operation of Personal Locator Beacon (PLB).</li> <li>i. Continue to re-evaluate Risk Management.</li> </ul>	_____
<p>2. <b>Grounding:</b></p> <ul style="list-style-type: none"> <li>a. Notified Coxswain of any injuries to other crewmember or self.</li> <li>b. Inspect bilge spaces for obvious flooding or damage.</li> <li>c. If able, take soundings around boat as directed by Coxswain.</li> <li>d. Rig anchor as directed by Coxswain.</li> <li>e. Continue to re-evaluate Risk Management.</li> </ul>	_____

**Mentor** \_\_\_\_\_ **Date** \_\_\_\_\_

**Comments**  
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\_\_\_\_\_



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## Section H. Auxiliary Specific Tasks

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### Introduction

The following objective of Section H is:

- (01) **Demonstrate** the ability to perform duties of an Auxiliary facility crewmember.

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### In this Section

This Section contains the following tasks:

Task Number	Task	See Page
BCM-08-01-AUX	<a href="#">Basic Knowledge of Boating Skills</a>	2-80
BCM-08-02-AUX	<a href="#">Perform as a Crewmember During a Navigation and Piloting Exercise</a>	2-81
BCM-08-03-AUX	<a href="#">Dockside Oral Examination</a>	2-82
BCM-08-04-AUX	<a href="#">Underway Check Ride</a>	2-83



**TASK BCM-08-01-AUX: Basic Knowledge of Boating Skills**

**Reference** a. *Auxiliary Manual, COMDTINST M16790.1 (series), Chapter 1*

**Conditions** Auxiliary member must complete the requirement prior to requesting a Qualification Examiner check ride.

**Standards** Auxiliary members must show proof of being a Basically Qualified member by having satisfactorily completed one of the following prerequisites for basic knowledge of boating skills.

Performance Criteria	Completed (Initials)
1. Demonstrate the completion of any NASBLA approved Boating Safety Course (Date of Completion __/__/__); Name of course: _____;or	_____
2. Challenge and pass the closed book monitored exam for one of the NASBLA approved Boating Safety Courses	_____

**FSO-OP or FSO-MT:** \_\_\_\_\_ **Date** \_\_\_\_\_





**TASK BCM-08-02-AUX: Perform as a Crewmember During a Navigation and Piloting Exercise**

**Reference**

- a. *Boat Crew Handbook – Navigation and Piloting, BCH16114.3 (series)*
- b. *Boat Crew Handbook – Boat Operations, BCH16114.1 (series)*
- c. *Boat Crew Handbook – Seamanship Fundamentals, BCH16114.4 (series)*

**Conditions**

Task should be performed at the dock and underway in calm conditions (and on a clear night for night exercise). The trainee must perform crewmember duties and assist the coxswain, using available equipment to integrate information and safely navigate the facility. All chart work (manual or electronic), including courses, distances, time to run, and electronics set up shall be completed prior start of the navigation exercise. Trainee must accomplish task without prompting or use of a reference.

**Standards**

The trainee shall assist the coxswain as required in safely executing a Navigation evaluation drill in accordance with the Navigation evaluation drill sheet found in <https://www.uscgaux.info/content.php?unit=R-DEPT&category=standardized-drill-sheets>. **In addition to daytime completion of this task, member’s that will be nighttime certified and performing nighttime operations, completion of this task must be completed at night prior to completion of the PQS process and requesting a QE checkride.** The coxswain along with the mentor should supervise the trainee.

**NOTE**

**Mentor shall add “Comments” as to whether or not the member will be requesting Nighttime certification as part of their QE checkride.**

Performance Criteria	Completed (Initials)
1. While conducting a Navigation evaluation drill in accordance with the Navigation evaluation drill sheet found in <a href="https://www.uscgaux.info/content.php?unit=R-DEPT&amp;category=standardized-drill-sheets">https://www.uscgaux.info/content.php?unit=R-DEPT&amp;category=standardized-drill-sheets</a> perform the following duties as a crewmember: <ul style="list-style-type: none"> <li>a. Lookout.</li> <li>b. Helm watch, if capable.</li> <li>c. Assist the coxswain with safe navigation, identify aids to navigation and local landmarks encountered on a chart (if applicable) or the electronic navigation equipment.</li> <li>d. Assist the coxswain to determine facility’s position using manual or electronic navigation.</li> <li>e. Radio communications.</li> <li>f. Other duties as directed.</li> </ul>	Day: _____ Night: _____
2. Effectively used Risk Management and Team Coordination with Boat Crew.	Day: _____ Night: _____

**Mentor** \_\_\_\_\_

**Date** \_\_\_\_\_

**Comments**

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**TASK BCM-08-03-AUX: Dockside Oral Examination**

- Reference**
- a. Boat Crew Handbook – Boat Operations, BCH16114.1 (series)
  - b. Boat Crew Handbook – Rescue and Survival Procedures, BCH 16114.2 (series)
  - c. Boat Crew Handbook – Navigation and Piloting, BCH16114.3 (series)
  - d. Boat Crew Handbook – Seamanship Fundamentals, BCH16114.4 (series)
  - e. Boat Crew Handbook – First Aid, BCH 16114.5 (series)
  - f. Auxiliary Training Handbook – Boat Crew, ATH16794.51 (series)
  - g. Auxiliary Operations Process Guide: Volume I - General/Surface, AOPG 16798.31 (series)
  - h. District Standard Operating Procedures, Policy Manuals, and other local Instructions

**Conditions** Task should be performed ashore or aboard a moored facility. Trainee must accomplish task without prompting or use of a reference.

**Standards** The trainee must successfully demonstrate knowledge of qualification tasks selected by the QE. The QE will select at least one task from each section (A- G) of the Qualification Guide, plus at least three tasks of the QE’s choice, as outlined by performance criteria #8, #9, and #10 below. The QE may ask additional questions based on tasks to ensure that the trainee is fully ready to be qualified.

Performance Criteria	Completed (Initials)
1. Section A, BCM-01-____-AUX	_____
2. Section B, BCM-02-____-AUX	_____
3. Section C, BCM-03-____-AUX	_____
4. Section D, BCM-04-____-AUX	_____
5. Section E, BCM-05-____-AUX	_____
6. Section F, BCM-06-____-AUX	_____
7. Section G, BCM-07-____-AUX	_____
8. BCM-____-____-AUX	_____
9. BCM-____-____-AUX	_____
10. BCM-____-____-AUX	_____

**Accomplished:**

**Qualification Examiner’s**

**Signature:** \_\_\_\_\_ **Date:** \_\_\_\_\_

**Comments:**

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_



**TASK BCM-08-04-AUX: Underway Check Ride**

<b>Reference</b>	a. Boat Crew Handbook – Boat Operations, BCH16114.1 (series) b. Boat Crew Handbook – Rescue and Survival Procedures, BCH 16114.2 (series) c. Boat Crew Handbook – Navigation and Piloting, BCH16114.3 (series) d. Boat Crew Handbook – Seamanship Fundamentals, BCH16114.4 (series) e. Boat Crew Handbook – First Aid, BCH 16114.5 (series) f. Standardized Drill Sheets g. Auxiliary Training Handbook – Boat Crew, ATH16794.51 (series) h. Auxiliary Operations Process Guide: Volume I - General/Surface, AOPG 16798.31 (series) i. District Standard Operating Procedures, Policy Manuals, and other local Instructions
<b>Conditions</b>	Task should be performed underway on an Auxiliary Facility in calm sea conditions. Trainee must accomplish task without prompting or use of a reference.
<b>Standards</b>	In response to the QE and as directed by the coxswain, trainee must answer questions on, and perform the below listed evolutions as the crewmember. The coxswain along with the QE should supervise the trainee.
<b>(Note 1)</b>	<b>For candidates wanting to be “Night Certified” Performance Criteria #11, and #12 must be part of the QE checkride conducted at night.</b>

Will member be nighttime certified? YES \_\_\_\_\_ NO \_\_\_\_\_

NAME: _____		Member Number: _____	
Sea/Wx Conditions: _____		Facility size/type: _____	
Performance Criteria			Completed (Initials)
1. Ensure TASK BCM-02-02-AUX: Personal Physical Fitness and Vision has been completed and/or updated every three years.			_____
2. Assist coxswain with a pre-underway check-off.			_____
3. Participate in a pre-underway brief, including use of TCT/RM.			_____
4. Correctly don a PFD and demonstrate an understanding of the use of personnel survival equipment. (Ensure PLB monthly testing has been completed).			_____
5. Demonstrate proficiency in knot tying.			_____
a. Bowline			
b. Clove Hitch			
c. Double becket bend			
d. Round Turn and Half Hitch			
6. Demonstrate proficiency and safety in line handling. To include:			_____
a. Getting underway.			
b. Mooring (to include proper usage and placement of fenders).			
c. Anchoring			
d. Towing			_____
7. Demonstrated properly securing the facility for sea.			_____
8. Stand an alert helm watch, with the correct responses to the coxswain’s commands.			_____



Part 2 – Boat Crew Member Qualification  
Chapter 2 – Task Accomplishment Record

NAME: _____		Member Number: _____
Sea/Wx Conditions: _____		Facility size/type: _____
Performance Criteria		Completed (Initials)
9. Stand an alert lookout watch, correctly report distance and relative bearings of objects and sounds encountered.		_____
10. Demonstrate proficiency in anchoring and weighing anchor.		_____
11. <b>(Note 1)</b> Correctly responded to a Man-Overboard drill, and safely recovered a simulated PIW in accordance with the Man Overboard (MOB) evaluation drill sheet found in <a href="https://wow.uscgaux.info/content.php?unit=R-DEPT&amp;category=standardized-drill-sheets">https://wow.uscgaux.info/content.php?unit=R-DEPT&amp;category=standardized-drill-sheets</a>		Day: _____ Night: _____
12. <b>(Note 1)</b> Perform as a Crewmember during a Navigation and Piloting Exercise in accordance with TASK BCM-08-02-AUX and the Navigation evaluation drill sheet found in <a href="https://wow.uscgaux.info/content.php?unit=R-DEPT&amp;category=standardized-drill-sheets">https://wow.uscgaux.info/content.php?unit=R-DEPT&amp;category=standardized-drill-sheets</a>		Day: _____ Night: _____
13. Demonstrate proficiency and safety while performing duties during a stern tow and an alongside tow in accordance with the TOWING evaluation drill sheet found in <a href="https://wow.uscgaux.info/content.php?unit=R-DEPT&amp;category=standardized-drill-sheets">https://wow.uscgaux.info/content.php?unit=R-DEPT&amp;category=standardized-drill-sheets</a>		_____
14. Correctly and safely respond to an onboard fire in accordance with the Onboard Fire evaluation drill sheet found in <a href="https://wow.uscgaux.info/content.php?unit=R-DEPT&amp;category=standardized-drill-sheets">https://wow.uscgaux.info/content.php?unit=R-DEPT&amp;category=standardized-drill-sheets</a>		_____
15. Correctly and safely respond to a facility grounding in accordance with the Grounding evaluation drill sheet found in <a href="https://wow.uscgaux.info/content.php?unit=R-DEPT&amp;category=standardized-drill-sheets">https://wow.uscgaux.info/content.php?unit=R-DEPT&amp;category=standardized-drill-sheets</a>		_____
16. Correctly make a scheduled OPS and Position report, on the facility's VHF-FM radiotelephone.		_____
17. Satisfactorily evaluated/re-evaluated TCT/RM throughout each Performance Criteria, as needed.		_____
18. Satisfactorily answer QEs questions on policies and procedures. Questions should pertain to knowledge required by the above qualification tasks.		_____

**Accomplished:**

**Qualification Examiner's  
Signature:**

**Date**

**NOTE**

Comments should be made in detail. Tasks that were not performed to standards (S) require specific comments addressing what the deficiencies were and why, and what corrective action must be taken to be successful at the next checkride. The QE shall initial on the line by the task that was successfully accomplished during the checkride they evaluated and then sign on the "Signature" and "Date" line.  
For **successful checkrides**, refer to the Auxiliary Training Handbook-Boat Crew, ATH 16794.51 (series), Chapter 7, Section E, Paragraph E.7. for required documentation to submit to the Operation Training Officer (OTO).  
For **unsuccessful checkrides**, refer to the Auxiliary Training Handbook-Boat Crew, ATH 16794.51 (series), Chapter 7, Section E, Paragraph E.6.

**Comments:**

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## CHAPTER 3

### Boat Crewmember Trainee Study Guide

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#### Introduction

This Chapter should be removed and given to the trainee to keep. Its purpose is to provide guidance for the trainee's reading assignments and is not a part of the training record.

The trainee should read the appropriate reading assignment and answer the related questions prior to beginning training in each new task. The mentor should then discuss the trainee's answers to ensure understanding of the subject matter prior to beginning instruction for each new task.

#### NOTE *GS*

If there is no reading assignment assigned for a specific task, then the task will not have a page number to reference.

#### In this Chapter

This Chapter contains the following sections:

Section	Title	See Page
A	Reading Assignments – Crew Efficiency Factors, Risk Factors and Team Coordination	2-90
B	Reading Assignments – Physical Fitness, First Aid, and Survival	2-91
C	Reading Assignments – Marlinespike Seamanship, Boat Nomenclature, Nautical Terminology, and Basic Stability	2-94
D	Reading Assignments – Boat Handling	2-97
E	Reading Assignments – Communications	2-100
F	Reading Assignments – Navigation	2-101
G	Reading Assignments – Mission Oriented Operations	2-104
H	Reading Assignments – Auxiliary Specific Tasks	2-107



## Section A. Reading Assignments – Crew Efficiency Factors, Risk Factors and Team Coordination

**Introduction**                      The reading assignment(s) should be read prior to beginning instruction of each task.

**In this Section**                      This Section contains the following reading assignments:

Task Number	Task Title	Reading Assignment	See Page
BCM-01-01-AUX	<a href="#">Crew Fatigue Standards</a>	Boat Crew Handbook – Boat Operations, BCH16114.1 (series)	<a href="#">2-90</a>
BCM-01-02-AUX	<a href="#">Motion Sickness</a>	Boat Crew Handbook – First Aid, BCH16114.5 (series)	<a href="#">2-90</a>
BCM-01-03-AUX	Team Coordination Training (TCT)	None assigned	

**TASK BCM-01-01-AUX:                      Crew Fatigue**

1. Mental and physical fatigue is among the \_\_\_\_\_ during rough weather operations.
2. The primary symptoms of fatigue are:
  - a.
  - b.
  - c.
  - d.
  - e.
  - f.
3. Some preventive measures are:
  - a.
  - b.
  - c.
  - d.
  - e.
4. Some other environmental conditions that also promote fatigue are:
  - a.
  - b.
  - c.
  - d.
  - e.

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

1. Motion sickness occurs when there is an imbalance between \_\_\_\_\_ images and the portion of the \_\_\_\_\_ which senses motion.
2. Reading chart work, or other tasks that require close attention, will \_\_\_\_\_ motion sickness.



## Section B. Reading Assignments – Physical Fitness, First Aid, and Survival

**Introduction**                      The reading assignment(s) should be read prior to beginning instruction of each task.

**In this Section**                      This Section contains the following reading assignments:

<b>Task Number</b>	<b>Task Title</b>	<b>Reading Assignment</b>	<b>See Page</b>
BCM-02-01-AUX	Personal Physical Requirements and Policy	None Assigned	
BCM-02-02-AUX	Personal Physical Fitness and Vision	None Assigned	
BCM-02-03-AUX	<a href="#">Don the Type III PFD</a>	Boat Crew Handbook - Rescue and Survival Procedures, BCH 16114.2 (series)	<a href="#">2-93</a>
BCM-02-04-AUX	Don the Automatic Inflatable PFD, (if applicable)	None Assigned	
BCM-02-05-AUX	<a href="#">Don Anti-Exposure Coveralls (as applicable)</a>	Rescue and Survival Systems Manual, COMDTINST M10470.10 (series) Boat Crew Handbook - Rescue and Survival Procedures, BCH 16114.2 (series)	<a href="#">2-93</a>
BCM-02-06-AUX	<a href="#">Don the Boat Crew Dry Suit (as applicable)</a>	Rescue and Survival Systems Manual, COMDTINST M10470.10 (series) Boat Crew Handbook - Rescue and Survival Procedures, BCH 16114.2 (series)	<a href="#">2-93</a>
BCM-02-07-AUX	<a href="#">Identify Boat Crew Survival Equipment</a>	Boat Crew Handbook - Rescue and Survival Procedures, BCH 16114.2 (series)	<a href="#">2-93</a>
BCM-02-08-AUX	Use the Emergency Signaling Mirror	None Assigned	
BCM-02-09-AUX	Describe the Use of Hand-Held Distress Flares	None Assigned	
BCM-02-10-AUX	Describe the Use of Aerial Flares	None Assigned	
BCM-02-11-AUX	Operate the Personal Marker Light (PML) or Strobe Light	None Assigned	
BCM-02-12-AUX	Operate the Personal Locator Beacon	None Assigned	
BCM-02-13-AUX	<a href="#">State Survival Procedures in Event the Boat Capsizes or Swamps</a>	Boat Crew Handbook - Rescue and Survival Procedures, BCH 16114.2 (series)	<a href="#">2-93</a>



<b>Task Number</b>	<b>Task Title</b>	<b>Reading Assignment</b>	<b>See Page</b>
BCM-02-14-AUX	<a href="#">Perform Water Survival Exercise</a>	Boat Crew Handbook - Rescue and Survival Procedures, BCH 16114.2 (series)	<a href="#">2-93</a>
BCM-02-15-AUX	Crew First-Aid Responsibility	None Assigned	
BCM-02-16-AUX	Sun and Heat related Exercise	None Assigned	
BCM-02-17-AUX	State the Symptoms of Shock	None Assigned	
BCM-02-18-AUX	State the Symptoms of Anaphylactic Shock (Allergic Reaction)	None Assigned	
BCM-02-19-AUX	State the Signs for Burn	None Assigned	
BCM-02-20-AUX	State the Symptoms of Hypothermia	None Assigned	





**TASK BCM-02-03-AUX: Don the Type III PFD**

- 
1. The Type III PFD is normally worn aboard boats when \_\_\_\_\_ or \_\_\_\_\_ is required.
  2. True or False. The Type III PFD will turn a crewmember face up if they fall overboard and are rendered unconscious.
  3. The Type III PFD has a tendency to allow \_\_\_\_\_ position or \_\_\_\_\_ position on the wearer in the water.
- 

**TASK BCM-02-05-AUX: Don Anti-Exposure Coveralls (as applicable)**

- 
1. True or False. Wearing a Type I or III PFD over an anti-exposure coverall is dangerous and unauthorized.
  2. The anti-exposure coveralls have straps located at the \_\_\_\_\_, \_\_\_\_\_, and \_\_\_\_\_ which should be tightened before entering the water.
  3. The anti-exposure coveralls are ideal for cold weather operations with \_\_\_\_\_ cockpit boats.
- 

**TASK BCM-02-06-AUX: Don the Boat Crew Dry Suit (as applicable)**

- 
1. The dry suit, undergarments, PFD, and neoprene hood shall be worn when the water temperature is below \_\_\_\_\_ ° F and the air temperature is below \_\_\_\_\_ ° F.
  2. The dry suit has watertight seals at the \_\_\_\_\_ and \_\_\_\_\_.
  3. The dry suit, with \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_, and \_\_\_\_\_ provides the best protection for crewmembers in adverse weather and cold water immersion.
  4. A \_\_\_\_\_ must be worn over a dry suit at all times while underway.
- 

**TASK BCM-02-07-AUX: Identify Boat Crew Survival Equipment**

- 
1. The boat crew survival equipment provides crewmembers a means to \_\_\_\_\_ their position on the surface of the water \_\_\_\_\_ or \_\_\_\_\_.
  2. The survival knife is a basic tool used to free the crewmember from \_\_\_\_\_.
  3. The emergency signaling mirror is used to attract the attention of passing \_\_\_\_\_, \_\_\_\_\_, or \_\_\_\_\_.
  4. Reflected light from the emergency signal mirror can be seen at a distance of \_\_\_\_\_ or more from the point of origin.
  5. It does this by \_\_\_\_\_ light at them.
  6. To use the mirror, you should face a point about \_\_\_\_\_ between the sun and the object you wish to signal.
- 

**TASK BCM-02-13-AUX: State Survival Procedures in Event the Boat Capsizes or Swamps**

- 
1. While capsizing, personnel should \_\_\_\_\_ something sturdy.
  2. Before attempting to escape, an inventory should be made of all \_\_\_\_\_ that might be taken along.
  3. Because air will eventually leak or run out, every effort should be made to \_\_\_\_\_.
  4. Sometimes it is necessary to \_\_\_\_\_ your PFD in order to exit.
- 

**TASK BCM-02-14-AUX: Perform Water Survival Exercise**

- 
1. A signal whistle's audible sound may be heard up to \_\_\_\_\_ yards.
  2. Define the acronym HELP in regard to water survival.
  3. True or False. Swimming in cold water will warm you up and increase your chances for survival
-



## Section C. Reading Assignments – Marlinespike Seamanship, Boat Nomenclature, Nautical Terminology, and Basic Stability

**Introduction**                      The reading assignment(s) should be read prior to beginning instruction of each task.

**In this Section**                      This Section contains the following reading assignments:

Task Number	Task Title	Reading Assignment	See Page
BCM-03-01-AUX	State Common Boat Nomenclature and Terminology	Boat Crew Handbook – Seamanship Fundamentals, BCH16114.4 (series)	2-95
BCM-03-02-AUX	Locate and Identify the Purpose of the Equipment Aboard the Boat	Boat Crew Handbook – Seamanship Fundamentals, BCH16114.4 (series)	2-95
BCM-03-03-AUX	Boat Characteristics – Boat Construction	Boat Crew Handbook – Seamanship Fundamentals, BCH16114.4 (series)	2-95
BCM-03-04-AUX	Boat Characteristics – Watertight Integrity	Boat Crew Handbook – Seamanship Fundamentals, BCH16114.4 (series)	2-95
BCM-03-05-AUX	Stability	Boat Crew Handbook – Seamanship Fundamentals, BCH16114.4 (series)	2-96
BCM-03-06-AUX	Identify the Different Parts of a Line and Hitches Used in Line Handling	Boat Crew Handbook – Seamanship Fundamentals, BCH16114.4 (series)	2-96
BCM-03-07-AUX	Tie Various Knots, Hitches, and Bends	Boat Crew Handbook – Seamanship Fundamentals, BCH16114.4 (series)	2-96
BCM-03-08-AUX	Secure Lines to Cleats, Bitts, and Posts	Boat Crew Handbook – Seamanship Fundamentals, BCH16114.4 (series)	2-96
BCM-03-09-AUX	Identify the Types of Breaking Seas, Characteristics, and Causes	Boat Crew Handbook – Seamanship Fundamentals, BCH16114.4 (series)	2-96



**TASK BCM-03-01-AUX: State Common Boat Nomenclature and Terminology**

---

1. The front end of the boat is the \_\_\_\_\_.
  2. When proceeding toward the bow, you are going \_\_\_\_\_.
  3. The right side of the bow is the \_\_\_\_\_ bow.
  4. The central or middle area of the boat is \_\_\_\_\_.
  5. The left center side of the boat is the \_\_\_\_\_.
  6. The rear of the boat is the \_\_\_\_\_.
  7. The left rear section of the boat is the port \_\_\_\_\_.
  8. A line running from one side of the boat to the other is said to be \_\_\_\_\_.
  9. From the center line toward either side is referred to as \_\_\_\_\_.
  10. From either side toward the centerline is called \_\_\_\_\_.
  11. The side of the boat against a dock is also called \_\_\_\_\_.
  12. If you go down inside the boat, you are going \_\_\_\_\_.
  13. If you are up into the rigging of the boat, you are going \_\_\_\_\_.
- 

**TASK BCM-03-02-AUX: Locate and Identify the Purpose of the Equipment Aboard the Boat**

---

1. A \_\_\_\_\_ is used to allow the anchor line to spin freely.
  2. 75 FT and 100 FT \_\_\_\_\_ are used for passing the towline when maneuverability is restricted.
  3. A \_\_\_\_\_ is used to attach a towline to a trailer eyebolt on boats.
  4. When securing chafing gear to a line, you should use \_\_\_\_\_ or \_\_\_\_\_.
  5. Ring \_\_\_\_\_ are used during man overboard emergencies.
- 

**TASK BCM-03-03-AUX: Boat Characteristics – Boat Construction**

---

1. The three basic types of hull forms based on boat speed are \_\_\_\_\_, \_\_\_\_\_, and semi-displacement.
  2. A displacement hull boat pushes away (displaces) water allowing them \_\_\_\_\_ to \_\_\_\_\_ into the water.
  3. Heavy displacement hulls cannot exceed a speed of \_\_\_\_\_ times the \_\_\_\_\_ of their waterline length without requiring excessive power.
  4. Once “on top,” the \_\_\_\_\_ skims along the \_\_\_\_\_ of the water, whereas the displacement hull always forces water around it.
  5. The semi-displacement hull is a combination of characteristics of the \_\_\_\_\_ hull and the \_\_\_\_\_ hull.
  6. The \_\_\_\_\_ is the backbone of the boat.
  7. \_\_\_\_\_ are attached to the keel, which extend athwartships. The \_\_\_\_\_ of the boat is attached to the frames.
  8. The \_\_\_\_\_ controls the direction of the boat and may vary widely in size, design, and method of construction.
  9. The three rudder types are \_\_\_\_\_, \_\_\_\_\_, and \_\_\_\_\_.
  10. \_\_\_\_\_ is the distance a propeller advances in \_\_\_\_\_ revolution with no slip.
  11. \_\_\_\_\_ frames provide hull strength along the \_\_\_\_\_ of the hull.
  12. A \_\_\_\_\_ is a seagoing floor and provides strength to the \_\_\_\_\_ by reinforcing the transverse \_\_\_\_\_ and deck beams.
  13. \_\_\_\_\_ are small openings.
- 

**TASK BCM-03-04-AUX: Boat Characteristics – Watertight Integrity**

---

1. The interior of a boat is compartmentalized into bulkheads, decks, and hatches. The hatches are actually “doors” though the bulkheads. With the hatches closed, the space between them becomes watertight and is called a \_\_\_\_\_.
-



**TASK BCM-03-05-AUX: Stability**

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1. The tendency to remain upright is its (the boat's) \_\_\_\_\_.
  2. \_\_\_\_\_ and \_\_\_\_\_ are the two primary forces acting upon a floating boat that affect stability.
  3. The \_\_\_\_\_ is the point at which the weight of the boat acts vertically downwards.
  4. The \_\_\_\_\_ is the upward force of water displaced by the hull.
  5. When a boat is at rest, the center of buoyancy acting upward/vertically is below the center of gravity acting downwards. A boat is considered to be in \_\_\_\_\_.
  6. A boat has two principal types of stability: \_\_\_\_\_ and \_\_\_\_\_.
  7. General boat design features that influence stability include:
    - 1)
    - 2)
    - 3)
    - 4)
    - 5)
    - 6)
    - 7)
- 

**TASK BCM-03-06-AUX: Identify the Different Parts of a Line and Hitches Used in Line Handling**

---

1. The running or free end of a line is called the \_\_\_\_\_ or \_\_\_\_\_.
  2. The long, unused, or belayed end is called the \_\_\_\_\_.
  3. An overhang loop is made by crossing the \_\_\_\_\_ over the standing part.
  4. A bight is a \_\_\_\_\_ formed by turning the line back on itself.
  5. A \_\_\_\_\_ is a single turn and a \_\_\_\_\_ is a complete turn around an object.
- 

**TASK BCM-03-07-AUX: Tie Various Knots, Hitches, and Bends**

---

1. The advantage of a bowline is that it does not \_\_\_\_\_ or \_\_\_\_\_ easily.
  2. The best all-around hitch for securing a line to a ring, spar, or other round or near round object is the \_\_\_\_\_.
  3. Timber hitches are used to secure a line to logs, planks, or other \_\_\_\_\_ objects.
  4. \_\_\_\_\_ are used to lengthen one line by bending one to another.
- 

**TASK BCM-03-08-AUX: Secure Lines to Cleats, Bitts, and Posts**

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1. Deck fittings permit easy handling of lines and reduce \_\_\_\_\_ and friction on lines.
  2. When securing a line to a cleat, bitt, or post, you should first take a \_\_\_\_\_ around the deck fitting.
  3. You should finish securing the line by forming several figure \_\_\_\_\_.
  4. To facilitate speed and safety, the dipping the \_\_\_\_\_ method should be used when two mooring lines have to be placed on the same cleat.
- 

**TASK BCM-03-09-AUX: Identify the Types of Breaking Seas, Characteristics, and Causes**

---

1. Wave \_\_\_\_\_ occurs when the wave passes around a point of land, jetty, or moves into shoaling water and interacts with the bottom and slows down.
  2. \_\_\_\_\_ should be avoided because they can create more energy than a single break.
  3. The three characteristics which determine wind waves are:
    - a. \_\_\_\_\_
    - b. \_\_\_\_\_
    - c. \_\_\_\_\_
-



## Section D. Reading Assignments – Boat Handling

**Introduction**                      The reading assignment(s) should be read prior to beginning instruction of each task.

**In this Section**                      This section contains the following reading assignments:

<b>Task Number</b>	<b>Task Title</b>	<b>Reading Assignment</b>	<b>See Page</b>
BCM-04-01-AUX	Rig Fenders to Side of the Boat	Boat Crew Handbook – Boat Operations, BCH16114.1 (series) Boat Crew Handbook – Seamanship Fundamentals, BCH16114.4 (series)	2-98
BCM-04-02-AUX	Assist in Anchoring the Boat	Boat Crew Handbook – Seamanship Fundamentals, BCH16114.4 (series)	2-98
BCM-04-03-AUX	Assist in Weighing the Boat's Anchor	Boat Crew Handbook – Seamanship Fundamentals, BCH16114.4 (series)	2-98
BCM-04-04-AUX	Identify the Common Navigation Lights Displayed by Ships and Boats	Promulgation of the Navigation Rules and Regulations Handbook	2-98
BCM-04-05-AUX	Identify the Common Sound Signals Used by Ships and Boats	Promulgation of the Navigation Rules and Regulations Handbook	2-98
BCM-04-06-AUX	Identify and State Accepted Maritime Distress Signals	Promulgation of the Navigation Rules and Regulations Handbook	2-98
BCM-04-07-AUX	Stand a Lookout Watch	Boat Crew Handbook – Boat Operations, BCH16114.1 (series)	2-99
BCM-04-08-AUX	(Boat Handling) Act as a Helmsman and Steer a Compass Course	Boat Crew Handbook – Boat Operations, BCH16114.1 (series) Boat Crew Handbook – Navigation and Piloting, BCH16114.3 (series)	2-99
BCM-04-09-AUX	Get the Boat Away from a Pier/Dock and Secure the Deck	None Assigned	
BCM-04-10-AUX	Prepare for, Moor and Secure the Boat to a Pier/Dock	None Assigned	



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

1. When docking or taking another boat alongside, you should always rig fenders to prevent \_\_\_\_\_ damage.
2. Fenders should be adjusted to cushion points of \_\_\_\_\_.
3. Fenders should be secured using a \_\_\_\_\_ or \_\_\_\_\_ hitch.

**TASK BCM-04-02-AUX: Assist in Anchoring the Boat**

4. The \_\_\_\_\_ of the anchor are the parts that dig into the bottom to provide holding power.
5. The anchor line, or chafing chain, is secured to the \_\_\_\_\_.
6. A \_\_\_\_\_ is used to attach the chain so that the anchor line can spin freely.
7. Never stand in the \_\_\_\_\_ of an anchor line.
8. The anchor line should always form an angle of \_\_\_\_\_ or less with the bottom.

**TASK BCM-04-03-AUX: Assist in Weighing the Boat's Anchor**

1. Slack in the anchor line should be \_\_\_\_\_ as the boat is moved ahead.
2. As the line comes onboard, it should be \_\_\_\_\_ on deck.
3. If the anchor refuses to break free, the line should be \_\_\_\_\_ around the forward bitt while the Coxswain moves ahead a few feet to break it free.

**TASK BCM-04-04-AUX: Identify the Common Navigation Lights Displayed by Ships and Boats**

1. The purpose of navigational lights is to \_\_\_\_\_ vessels of the presence or approach of another boat.
2. Lights must be used from \_\_\_\_\_ to \_\_\_\_\_ and in times of restricted visibility.
3. A green sidelight means you are looking at a boat's \_\_\_\_\_ side.
4. A red sidelight means you are looking at a boat's \_\_\_\_\_ side.
5. A power-driven boat less than 50 meters in length must display red and \_\_\_\_\_ sidelights, a masthead light, and a \_\_\_\_\_ light.
6. Sailing vessels less than 20 meters (international/inland) in length must display sidelights and stern light. Optionally, these lights may be displayed using a \_\_\_\_\_ light.

**TASK BCM-04-05-AUX: Identify the Common Sound Signals Used by Ships and Boats**

1. A short blast is a blast of about \_\_\_\_\_ second(s) duration.
2. A prolonged blast is from \_\_\_\_\_ to \_\_\_\_\_ seconds in duration.
3. If you hear a rapid striking of the gong for at least 5 seconds, you know the vessel is at least \_\_\_\_\_ meters long.
4. A power-driven vessel underway, making way, in conditions of reduced visibility sounds \_\_\_\_\_.
5. When a power-driven vessel making way in reduced visibility stops to evaluate the situation (not making way) the whistle signal is shifted to \_\_\_\_\_.
6. Sailing vessels during periods of reduced visibility sound \_\_\_\_\_.

**TASK BCM-04-06-AUX: Identify and State Accepted Maritime Distress Signals**

1. A gun fired at intervals of about \_\_\_\_\_ minute(s) may be used as an emergency signal.
2. Rockets, shells, or flares should be of a \_\_\_\_\_ color to indicate an emergency.
3. A square flag above a \_\_\_\_\_ also can be a distress signal.
4. Slowly \_\_\_\_\_ and \_\_\_\_\_ outstretched arms indicates an emergency.
5. The signal ... - - - ... means \_\_\_\_\_.



**TASK BCM-04-07-AUX: Stand a Lookout Watch**

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1. Lookout(s) shall be \_\_\_\_\_ and \_\_\_\_\_ by the Coxswain.
  2. When coming onto a plane, the rise of the \_\_\_\_\_ may limit visibility forward.
  3. It is the lookout's job to report everything \_\_\_\_\_, \_\_\_\_\_ or \_\_\_\_\_ to the boat Coxswain.
  4. When making reports, the lookout first names the object, then provides \_\_\_\_\_, bearing and \_\_\_\_\_ or \_\_\_\_\_ to the object.
  5. Lookouts should always remain at their Station until \_\_\_\_\_.
  6. If a report to the Coxswain is not acknowledged, it is \_\_\_\_\_.
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**TASK BCM-04-08-AUX: (Boat Handling) Act as a Helmsman and Steer a Compass Course**

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1. The arc of the compass card is divided into \_\_\_\_\_ °.
  2. A reading of 000° on the magnetic compass card should point toward \_\_\_\_\_ North.
  3. The \_\_\_\_\_ is in line with the boat's centerline and indicates the boat's \_\_\_\_\_.
  4. To ensure understanding, the helmsman always \_\_\_\_\_ all orders given to him/her by the Coxswain.
  5. The helmsman should attempt to maintain a course within  $\pm$  \_\_\_\_\_ ° of ordered course.
  6. The helmsman should not execute any orders unless \_\_\_\_\_ by the Coxswain.
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## Section E. Reading Assignments – Communications

**Introduction**                      The reading assignment(s) should be read prior to beginning instruction of each task.

**In this Section**                      This Section contains the following reading assignments:

Task Number	Task Title	Reading Assignment	See Page
BCM-05-01-AUX	Operate a VHF-FM Radiotelephone	None Assigned	
BCM-05-02-AUX	<a href="#">Use the VHF-FM Radiotelephone to Give a Position or Operations Report</a>	Radiotelephone Handbook, TTP 06-01.1	<a href="#">2-100</a>
BCM-05-03-AUX	<a href="#">State Radio Communications Policy and Doctrine</a>	Auxiliary Operations Process Guide: Volume I - General/Surface, AOPG 16798.31 (series)	<a href="#">2-100</a>

**TASK BCM-05-02-AUX:      Use the VHF-FM Radiotelephone to Give a Position or Operations Report**

1. \_\_\_\_\_ is used to end a transmission when a response is required.
2. \_\_\_\_\_ is used to end a transmission when no reply is required or expected.
3. Unofficial conversations between operators are \_\_\_\_\_.
4. Only \_\_\_\_\_ prowords or abbreviations should be used.
5. The \_\_\_\_\_ alphabet is used to identify letters or spell a word or group of letters.

**TASK BCM-05-03-AUX:      State Radio Communications Policy and Doctrine**

1. How often are position reports required every \_\_\_\_\_ minutes. The \_\_\_\_\_ may impose a more stringent reporting requirement.





## Section F. Reading Assignments – Navigation

**Introduction**                      The reading assignment(s) should be read prior to beginning instruction of each task.

**In this Section**                      This Section contains the following reading assignments:

<b>Task Number</b>	<b>Task Title</b>	<b>Reading Assignment</b>	<b>See Page</b>
BCM-06-01-AUX	Identify the Basic Parts, Symbols and Abbreviations Found on a Nautical Chart	Boat Crew Handbook – Navigation and Piloting, BCH16114.3 (series)	2-102
BCM-06-02-AUX	Identify Common Aids to Navigation Used in Small Boat Piloting	Boat Crew Handbook – Navigation and Piloting, BCH16114.3 (series)	2-102
BCM-06-03-AUX	Identify Local Landmarks Used in Small Boat Piloting	Boat Crew Handbook – Navigation and Piloting, BCH16114.3 (series)	2-102
BCM-06-04-AUX	Plot a Position Using Latitude and Longitude	Boat Crew Handbook – Navigation and Piloting, BCH16114.3 (series)	2-102
BCM-06-05-AUX	Plot a Magnetic Course on a Nautical Chart	Boat Crew Handbook – Navigation and Piloting, BCH16114.3 (series)	2-102
BCM-06-06-AUX	Measure Distance on a Nautical Chart	Boat Crew Handbook – Navigation and Piloting, BCH16114.3 (series)	2-102
BCM-06-07-AUX	Compute Time, Speed, and Distance	Boat Crew Handbook – Navigation and Piloting, BCH16114.3 (series)	2-103
BCM-06-08-AUX	Determine the Depth of Water Using a Depth Sounder (if equipped)	None assigned	
BCM-06-09-AUX	Operate RADAR (If Equipped)	Boat Crew Handbook – Navigation and Piloting, BCH16114.3 (series)	2-103
BCM-06-10-AUX	Operate and obtain a Fix Using GPS (If Equipped)	Boat Crew Handbook – Navigation and Piloting, BCH16114.3 (series)	2-103
BCM-06-11-AUX	Operate Electronic Charting System – if equipped	None assigned	



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

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1. One degree is equal to \_\_\_\_\_ minutes.
  2. One minute of \_\_\_\_\_ is equal to 1 NM.
  3. \_\_\_\_\_ of latitude are normally indicated by lines running from side to side.
  4. Latitude scales are normally indicated along the \_\_\_\_\_ margins.
  5. The meridian that passes through Greenwich, England is designated as \_\_\_\_\_°λ (degrees longitude).
  6. All meridians intersect at the \_\_\_\_\_.
  7. Most charts are oriented with \_\_\_\_\_ at the top.
  8. True direction is printed around the \_\_\_\_\_ of the compass rose.
  9. The sounding numbers show the water level at \_\_\_\_\_ tide.
  10. In regard to tidal datum's, the term "mean" is another way of saying \_\_\_\_\_.
  11. A memory aid to remember chart scale is "Small Scale-\_\_\_\_\_ Area."
- 

**TASK BCM-06-02-AUX:      Identify Common Aids to Navigation Used in Small Boat Piloting**

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1. The IALA Maritime Buoyage Region B area consists of \_\_\_\_\_.
  2. When steering on a range, if the top is left of the bottom mark, then you are \_\_\_\_\_ of the center of the channel.
  3. A cylindrical buoy that tapers to a blunt point at the top is called a \_\_\_\_\_ buoy.
  4. Channel buoys that are painted green should be taken on the \_\_\_\_\_ side of the boat when entering a harbor.
  5. If the top stripe of an obstruction or junction buoy were red, it would indicate that it should be taken on the \_\_\_\_\_ side when leaving the harbor.
- 

**TASK BCM-06-03-AUX:      Identify Local Landmarks Used in Small Boat Piloting**

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1. Prominent landmarks such as towers, smokestacks, and flagpoles are pinpointed by a standard symbol of a dot surrounded by a \_\_\_\_\_.
  2. All symbols and abbreviations found on a nautical chart are defined in \_\_\_\_\_.
  3. How are piers, jetties, and wharves displayed on a nautical chart? \_\_\_\_\_
- 

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

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1. They (lines) are parallel to the Equator and known as \_\_\_\_\_.
  2. To measure latitude, put one point of a pair of dividers on the \_\_\_\_\_ line nearest the object.
  3. To measure longitude, put one point of a pair of dividers on the \_\_\_\_\_ line nearest the object..
- 

**TASK BCM-06-05-AUX:      Plot a Magnetic Course on a Nautical Chart**

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1. Direction, generally referred to as a bearing, is measured in degrees \_\_\_\_\_ through \_\_\_\_\_.
  2. In boat navigation you will usually use \_\_\_\_\_ courses and bearings.
  3. When measuring magnetic direction using a parallel ruler, place the ruler so the edge passes through the \_\_\_\_\_ of the compass rose and the bearing number on the inner ring.
- 

**TASK BCM-06-06-AUX:      Measure Distance on a Nautical Chart**

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1. In piloting distance is measured in \_\_\_\_\_ miles or \_\_\_\_\_.
  2. The \_\_\_\_\_ mile is used for measurement on most navigable waters.
  3. One nautical mile is approximately \_\_\_\_\_ yards.
  4. Distance should be measured using the \_\_\_\_\_ scale or graphic scales found on the top or bottom of the chart.
  5. When the distance to be measured is greater than the span of the dividers, the dividers should be set at a line \_\_\_\_\_ the position and drop the other point \_\_\_\_\_.
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**TASK BCM-06-07-AUX: Compute Time, Speed, and Distance**

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1. In working time, distance, and speed problems when piloting a boat, the distance is always measured in \_\_\_\_\_ miles, the speed in \_\_\_\_\_, and the time in hours and minutes.
  2. Distance should be expressed to the nearest \_\_\_\_\_ of a nautical mile, speed to the nearest \_\_\_\_\_ of a knot, and time to the nearest \_\_\_\_\_.
  3. The nautical \_\_\_\_\_ was designed to solve time, distance, and speed problems.
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**TASK BCM-06-09-AUX: Operate RADAR (If Equipped)**

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1. The advantages of radar are:
    - a. Can be used at night or periods of \_\_\_\_\_ visibility.
    - b. Fixes can be obtained \_\_\_\_\_.
  2. The disadvantages of radar:
    - a. Charts do not always give information necessary for the \_\_\_\_\_ of radar echoes.
  3. The center of the screen represents the position of your \_\_\_\_\_.
  4. Buoys with radar reflectors will appear \_\_\_\_\_ to their actual size.
  5. Radar bearings are measured \_\_\_\_\_ or \_\_\_\_\_ the same as you would visual bearings.
- 

**TASK BCM-06-10-AUX: Operate and obtain a Fix Using GPS (If Equipped)**

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1. GPS is a radio navigation system of \_\_\_\_\_ satellites operated by the \_\_\_\_\_.
  2. In a process called “\_\_\_\_\_”, a GPS receiver on the boat uses the signal to determine the distance between it and the satellite.
  3. Once the receiver has computed the range for at least \_\_\_\_\_ satellites, it processes a three-dimensional position that is accurate, at best, to about \_\_\_\_\_ meters for GPS SPS.
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## Section G. Reading Assignments – Mission-Oriented Operations

**Introduction**                      The reading assignment(s) should be read prior to beginning instruction of each task.

**In this Section**                      This Section contains the following reading assignments:

<b>Task Number</b>	<b>Task Title</b>	<b>Reading Assignment</b>	<b>See Page</b>
BCM-07-01-AUX	Participate in a Man Overboard (Direct Pickup)	Boat Crew Handbook – Boat Operations, BCH16114.1 (series)	<a href="#">2-105</a>
BCM-07-02-AUX	<a href="#">Participate in a Man Overboard Evolution (Indirect Pickup)</a>	Boat Crew Handbook – Boat Operations, BCH16114.1 (series)	<a href="#">2-105</a>
BCM-07-03-AUX	Stand a Towing Watch	None assigned	
BCM-07-04-AUX	<a href="#">Bend a Heaving Line to a Bridle and Pass the Heaving Line to Another Boat</a>	Boat Crew Handbook – Boat Operations, BCH16114.1 (series)	<a href="#">2-105</a>
BCM-07-05-AUX	<a href="#">Pass a Towline to Another Boat</a>	Boat Crew Handbook – Boat Operations, BCH16114.1 (series)	<a href="#">2-105</a>
BCM-07-06-AUX	<a href="#">Connect a Towline to a Trailer Eyebolt Using a Skiff Hook</a>	Boat Crew Handbook – Boat Operations, BCH16114.1 (series)	<a href="#">2-105</a>
BCM-07-07-AUX	<a href="#">Secure an Alongside Tow</a>	Boat Crew Handbook – Boat Operations, BCH16114.1 (series)	<a href="#">2-105</a>
BCM-07-08-AUX	<a href="#">Identify the Different Classes of Fires and State the Fuel and Primary Extinguishing Agents Associated with Each</a>	Boat Crew Handbook – Boat Operations, BCH16114.1 (series)	<a href="#">2-106</a>
BCM-07-09-AUX	Locate and Identify the Firefighting Equipment Carried Onboard the Boat	None assigned	
BCM-07-10-AUX	<a href="#">Operate a Dry Chemical Fire Extinguisher (Simulate)</a>	Boat Crew Handbook – Boat Operations, BCH16114.1 (series)	<a href="#">2-106</a>
BCM-07-11-AUX	Locate and Operate the Boat’s Bilge Pump	None assigned	
BCM-07-12-AUX	Demonstrate the Appropriate Responses to the Applicable Basic Engineering Casualty Control Exercises (BECCE)	None assigned	



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**TASK BCM-07-01-AUX: Participate in a Man Overboard (Direct Pickup)**

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1. The first crewmember to observe a person overboard should give the alarm by yelling “man \_\_\_\_\_” followed by either “\_\_\_\_\_ side” or “\_\_\_\_\_ side”.
  2. The pointer will keep the victim in \_\_\_\_\_ and continuously \_\_\_\_\_ to the victim’s position.
- 

**TASK BCM-07-02-AUX: Participate in a Man Overboard Evolution (Indirect Pickup)**

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1. The recovery/pickup person prepares the \_\_\_\_\_ heaving line for casting to the victim.
  2. After the victim has been brought alongside the boat, the recovery/pickup person should \_\_\_\_\_ aboard.)
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**TASK BCM-07-04-AUX: Bend a Heaving Line to a Bridle and Pass the Heaving Line to Another Boat**

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1. You cannot tow beyond the design characteristics of any towing boat simply by \_\_\_\_\_ the line size.
  2. The towline should be inspected frequently for damage resulting from cutting, \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_, and \_\_\_\_\_.
  3. A towing bridle should be used in cases where a \_\_\_\_\_ attachment point is not available on the boat to be towed.
  4. The messenger line is simply a length of light line, which can be \_\_\_\_\_, propelled, or floated further than the tow line.
  5. The heaving line should be \_\_\_\_\_ to make it more flexible and less susceptible to becoming tangled.
- 

**TASK BCM-07-05-AUX: Pass a Towline to Another Boat**

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1. Where conditions permit and the towing boat can maneuver enough, the towline should be passed \_\_\_\_\_ to one of the people on the other boat.
  2. Before attaching the towline, make certain the fitting attachment it is to be attached to is \_\_\_\_\_ to the deck with through bolts and backing plates.
  3. When attaching to tow bow cleats or bitts, a \_\_\_\_\_ should be used.
  4. A \_\_\_\_\_ is used to reduce wear and chafing at the towline end.
- 

**TASK BCM-07-06-AUX: Connect a Towline to a Trailer Eyebolt Using a Skiff Hook**

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1. The trailer eyebolt is normally located on the \_\_\_\_\_.
  2. Never use a skiff hook for any operation that exceeds the stress load of towing \_\_\_\_\_ boats.
  3. Attach the skiff hook line to a towline with a \_\_\_\_\_ or \_\_\_\_\_ /sheet bend.
- 

**TASK BCM-07-07-AUX: Execute an Alongside Tow and Moor a Towed Vessel**

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1. When taking a boat alongside, the \_\_\_\_\_ takes the strain of forward movement.
  2. When taking a boat alongside, the \_\_\_\_\_ takes the strain of backing down.
  3. Always rig \_\_\_\_\_ to prevent hull damage.
  4. When shortening the tow, you should \_\_\_\_\_ in the slack from the towline to bring the disabled boat alongside.
  5. When securing the boat alongside using a backdown approach, you should lead the \_\_\_\_\_ forward to use as the bow line.
-



**TASK BCM-07-08-AUX: Identify the Different Classes of Fires and State the Fuel and Primary Extinguishing Agents Associated with Each**

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1. Fire is a chemical \_\_\_\_\_ known as combustion.
  2. The four elements of a fire are oxygen, heat, \_\_\_\_\_, and chain reaction.
  3. Fires fueled by common combustible materials, such as wood, cloth, or paper, are classified as Class \_\_\_\_\_ fires. The best extinguishing agent for this class fire is \_\_\_\_\_.
  4. Fires fueled by flammable or combustible liquids, flammable gases, or similar material are classified as Class \_\_\_\_\_ fires. The primary extinguishing agent for this class fire is \_\_\_\_\_.
  5. Fires involving combustible \_\_\_\_\_, with fuel sources such as sodium, potassium, or magnesium, are classified as Class \_\_\_\_\_ fire. Given that these type fires are not easily extinguished, the best agents to use for control of the fire are \_\_\_\_\_ or \_\_\_\_\_.
  6. Fires involving energized \_\_\_\_\_ equipment, such as conductors or appliances, are classified as Class \_\_\_\_\_ fires.
  7. The principal remedy for Class \_\_\_\_\_ fires is to secure the \_\_\_\_\_ and to apply \_\_\_\_\_ to the fire.
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**TASK BCM-07-10-AUX: Operate a Dry Chemical Fire Extinguisher (Simulate)**

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1. The effective range for a dry chemical fire extinguisher is \_\_\_\_\_ or \_\_\_\_\_ FT.
  2. When using dry chemical approach the fire as close as \_\_\_\_\_ will allow.
  3. The dry chemical should be pointed at the \_\_\_\_\_ of the flame and use a \_\_\_\_\_ movement.
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## Section H. Reading Assignments – Auxiliary Specific Tasks

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**Introduction** The reading assignment(s) should be read prior to beginning instruction of each task.

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**In this Section** This Section contains the following reading assignments:

<b>Task Number</b>	<b>Task Title</b>	<b>Reading Assignment</b>	<b>See Page</b>
BCM-08-01-AUX	Basic Knowledge of Boating Skills	None Assigned	
BCM-08-02-AUX	Perform as a Crewmember During a Navigation and Piloting Exercise	None Assigned	
BCM-08-03-AUX	Dockside Oral Examination	None Assigned	
BCM-08-04-AUX	Underway Check Ride	None Assigned	



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