



Part 2 Boat Crew Member Qualification

Introduction

This part contains a collection of tasks, that must be learned, practiced and performed by the trainee. These tasks represent the minimum elements of skill and knowledge necessary for safe and effective performance of a maritime law enforcement Boat Crew Member.

NOTE &

This Manual is not meant to be ordered for purposes of obtaining individual qualification tasks. Qualification tasks should be reproduced locally and provided for trainees.

In this part

This part contains the following chapters:

Chapter	Title	See Page
1	Task Accomplishment Record for Boat Crew Member	2-3
2	Boat Crew Member Qualification Tasks	2-7
3	Boat Crew Member Trainee Study Guide	2-79



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Chapter 1 Task Accomplishment Record for Boat Crew Member

NOTE &	Instructor should remove this chapter and place it in the trainee's training record/E-Training system.			
TRAINEE NAME: _		RATE:		
INSTRUCTOR NAME: RATE:		RATE:		
POSITION/QUALIFICATION CODE TO BE TRAINED FOR:				
NOTE &	Instructors should line through those tasks not applicate deferred in the E-Training system as required.	able to this qualification, and show them as		

Task	Date Started	Date Completed	Instructor's Initials
BCM-01-01-ANY			
BCM-01-02-ANY			
BCM-01-03-ANY			
BCM-02-01-ANY			
BCM-02-02-ANY			
BCM-02-03-ANY			
BCM-02-04-ANY			
BCM-02-05-ANY			
BCM-02-06-ANY			
BCM-02-07-ANY			
BCM-02-08-ANY			
BCM-02-09-ANY			
BCM-02-10-ANY			
BCM-02-11-ANY			
BCM-02-12-ANY			
BCM-02-13-ANY			
BCM-02-14-ANY			
BCM-02-15-TYPE			



Task	Date Started	Date Completed	Instructor's Initials
BCM-02-16-TYPE			
BCM-02-17-ANY			
BCM-02-18-ANY			
BCM-03-01-ANY			
BCM-03-02-TYPE			
BCM-03-03-TYPE			
BCM-03-04-TYPE			
BCM-03-05-TYPE			
BCM-03-06-ANY			
BCM-03-07-ANY			
BCM-03-08-ANY			
BCM-04-01-ANY			
BCM-04-02-TYPE			
BCM-04-03-TYPE			
BCM-04-04-TYPE			
BCM-04-05-ANY			
BCM-04-06-ANY			
BCM-04-07-ANY			
BCM-04-08-ANY			
BCM-04-09-ANY			
BCM-04-10-TYPE			
BCM-04-11-TYPE			
BCM-04-12-TYPE			
BCM-05-01-ANY			
BCM-05-02-ANY			
BCM-05-03-ANY			
BCM-06-01-ANY			
BCM-06-02-ANY			

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BCM-06-03-ANY		
BCM-06-04-ANY		
BCM-06-05-ANY		
BCM-06-06-ANY		
BCM-06-07-ANY		
BCM-06-08-ANY		
BCM-06-09-TYPE		
BCM-06-10-TYPE		
BCM-06-11-TYPE		
BCM-06-12-TYPE		
BCM-06-13 TYPE		
BCM-06-14-TYPE		
BCM-06-15-TYPE		
BCM-07-01-TYPE		
BCM-07-02-TYPE		
BCM-07-03-ANY		
BCM-07-04-ANY		
BCM-07-05-TYPE		
BCM-07-06-ANY		
BCM-07-07-TYPE		
BCM-07-08-ANY		
BCM-07-09-ANY		
BCM-07-10-TYPE		
BCM-07-11-ANY		
BCM-07-12-TYPE		
BCM-07-13-ANY		
BCM-07-14-TYPE		
BCM-07-15-TYPE		
BCM-07-16-ANY		
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E.	
BCM-07-17-TYPE	
BCM-07-18-ANY	
BCM-07-19-ANY	
BCM-07-20-TYPE	
BCM-07-21-TYPE	
BCM-07-22-TYPE	
BCM-07-23-TYPE	
BCM-08-01-ANY	
BCM-08-02-ANY	
BCM-08-03-ANY	
BCM-08-04-ANY	
BCM-08-05-ANY	
BCM-08-06-ANY	
BCM-08-07-ANY	



Chapter 2 Boat Crew Member Qualification Tasks

Introduction

The following are the instructions for this chapter:

The purpose of this chapter is to provide guidance on the trainee's progress through the qualification tasks.

The instructor should present the tasks to the trainee in a logical order using the instructions provided in *Part 1*.

Tasks should be signed, dated, and placed in the trainee's training record/E-Training system when the instructor is satisfied that the trainee can consistently perform a task in accordance with all standards and conditions.

In this chapter

This chapter contains the following sections:

Section	Title	See Page
A.	Crew Efficiency Factors, Risk Factors and Team Coordination	2-8
B.	Physical Fitness, First Aid, and Survival	2-10
C.	Marlinespike Seamanship, Boat Nomenclature, Nautical Terminology, and Basic Stability	2-24
D.	Boat Handling	2-31
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F.	Navigation	2-45
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Section A.	Crew Efficiency Factors, Risk Factors and Team
	Coordination

Introduction The following are objectives of Division One:

Demonstrate knowledge of the factors that affect crew performance.

Attend Team Coordination Training.

In this section

This section contains the following tasks:

Task Number	Task	See Page
BCM-01-01-ANY	Crew Fatigue	2-8
BCM-01-02-ANY	Motion Sickness	2-9
BCM-01-03-ANY	Team Coordination Training (TCT)	2-9

 TASK BCM-01-01-ANY:
 Crew Fatigue

 Reference
 a. Boat Crew Seamanship Manual, COMDTINST M16114.5 (series)

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

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

Performance Criteria		Completed (Initials)
1.	Describe the situations that may cause fatigue.	
2.	State the crew's responsibility.	
3.	Describe the primary symptoms of fatigue.	
4.	Describe the prevention measures.	
5.	State underway limits for unit's boats.	

Instructor	Date	
Comments		



ASK BCM-01-02-ANY: Motion Sickness		
References a. Boat Crew Seamanship Manual, COMDTINST M16114.5 (series) b. Antimotion Sickness Medications, COMDTINST 6710.15D		
Conditions Task should be performed at any time, at facilities available to the unit.		
Standards	Trainee must demonstrate knowledge of each task to the minimum standards included in each performance step.	
	Performance Criteria	Completed (Initials)
1. Explain the causes of motion	on sickness.	
2. List the symptoms of motion	on sickness.	
3. List the prevention and me	dication for motion sickness.	
4. Explain when best to take a	anti-motion sickness medication.	
Instructor	Date	
Comments		
TASK BCM-01-03-ANY:	Team Coordination Training (TCT)	
Reference	a. Team Coordination Training, COMDTINST M1541.1 (series)	
Conditions	Task should be performed at any time, at facilities available to the unit.	
Standards Trainee must attend the training similar to that prescribed in the reference above or succompletion of CG Institute Correspondence Course, or other nationally recognized TCT		
NOTE &	Completion of TCT training or completion of the CG Institute course must be en member's E-Training system or Training record.	ntered into the
	Performance Criteria	Completed (Initials)
1. Date initial training comple	eted:	
Instructor	Date	
Comments		



Section B. Physical Fitness, First Aid, and Survival

Introduction

The following are objectives of Division Two:

Achieve and **maintain** the level of physical conditioning necessary to safely and properly carry out the duties of a Boat Crew Member aboard a maritime law enforcement patrol vessel.

Identify and **become** proficient in those skills necessary for coping with open water survival situations.

Effectively use all standard boat crew signaling and survival equipment.

In this section

This section contains the following tasks:

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Task Number	Task	See Page
BCM-02-01-ANY	Personal Physical Fitness and Vision	2-11
BCM-02-02-ANY	Crew First-Aid Responsibility	2-11
BCM-02-03-ANY	Demonstrate Adult, Child, and Infant CPR	2-12
BCM-02-04-ANY	Don the Type III PFD	2-12
BCM-02-05-ANY	Don Anti-Exposure Coveralls	2-12
BCM-02-06-ANY	Don the Boat Crew Dry Suit	2-13
BCM-02-07-ANY	Identify Boat Crew Survival Vest Equipment	2-14
BCM-02-08-ANY	Use the Emergency Signaling Mirror	2-14
BCM-02-09-ANY	Demonstrate the Use of the MK-124 Smoke and Illumination Signal	2-15
BCM-02-10-ANY	Demonstrate the Use of the MK-79 Illumination Signal Kit	2-16
BCM-02-11-ANY	Operate the Distress Signal Light	2-17
BCM-02-12-ANY	Operate the Personal Locator Beacon	2-17
BCM-02-13-ANY	Don the Boat Crew Survival Vest	2-18
BCM-02-14-ANY	Don the Inflatable PFD	2-19
BCM-02-15-TYPE	Explain the Manual Deployment and Boarding Procedures for the Rescue and Survival Raft	2-20
BCM-02-16-TYPE	List Survival Procedures in Event of Boat Capsize	2-21
BCM-02-17-ANY	Open Water Survival Skills	2-22
BCM-02-18-ANY	Perform Water Survival Exercise	2-23



TASK BCM-02-01-ANY:	Personal Physical Fitness and Vision	
Reference a. U. S. Coast Guard Boat Operations and Training (BOAT) Manual Vol I, COMM M16114.32 (series)		OMDINST
Conditions	Task should be performed at any time, at facilities available to the unit. Steps may at once or over a period of time.	ay be done all
Standards	Trainee must demonstrate the ability to perform the requirements set forth in the references based on age and gender.	above
	Performance Criteria	Completed (Initials)
1. Demonstrate normal colo	r vision using the Farnsworth Lantern Test or the Pseudoisochromatic Plate Test.	
2. Accomplish all physical f	fitness requirements in accordance with ref. a.	
Age:	Gender:	
Instructor	Date	
Comments		
TASK BCM-02-02-ANY: References	a. Boat Crew Seamanship Manual, COMDTINST M16114.5 (series) b. Certifying Organization's Training Manual	
Conditions	Task should be performed at any time, at facilities available to the unit. Trainee accomplish task without prompting or use of a reference.	must
Standards (2)	Trainee must complete the American Red Cross, National Safety Council, American Heart Association or American Safety and Health Institute First-Aid Course to receive triennial certification.	
	Performance Criteria	Completed (Initials)
1. Certification Type and Da	ate course completed.	
Course:	Date:/	
Instructor	Date	
Comments		



TASK BCM-02-03-ANY:	Demonstrate Adult, Child, and Infant CPR	
References	a. Boat Crew Seamanship Manual, COMDTINST M16114.5 (series)	
	b. Certifying Organization's Training Manual	
Standards	Trainee must complete the American Red Cross, American Heart Associatio Council, or American Safety and Health Institute CPR course to receive cert	
	Performance Criteria	Completed (Initials)
1. Certification Type and D	Date course completed.	
Course:	Date:/	
Instructor	Date	
Comments		
TASK BCM-02-04-ANY:	Don the Type III PFD	
Reference	a. Rescue and Survival Systems Manual, COMDTINST M10470.10 (serie	es)
Conditions	Task should be performed at any time, at facilities available to the unit.	
Standards In response to the instructor, the trainee shall, without error, don the Type III PFD.		I PFD.
	Performance Criteria	Completed (Initials)
1. Demonstrate proper don	ning of the Type III PFD and adjust for proper fit.	
2. State when the Type III	PFD is required to be worn.	
Instructor	Instructor Date	
Comments		
TASK BCM-02-05-ANY:	Don Anti-Exposure Coveralls	
Reference	a. Rescue and Survival Systems Manual, COMDTINST M10470.10 (series	es)
Conditions	Task should be performed at any time, at facilities available to the unit.	
Standards	In response to the instructor, the trainee shall, without error, don the anti-exp	oosure coveralls.



	Performance Criteria	Completed (Initials)
1. Demonstrate proper donning of the anti-exposure coveralls and adjust for proper fit.		
	the special construction features of the anti-exposure coveralls (i.e. zipper wrist straps; pillow; waist belt and hood) and state how these increase ten utilized in the water.	
3. State when the anti-exposu	re coveralls are required to be worn.	
4. Demonstrate donning attac	hed hood.	
Instructor Date Comments		
TASK BCM-02-06-ANY:	Don the Boat Crew Dry Suit	
Reference	a. Rescue and Survival Systems Manual, COMDTINST M10470.10 (series)	
Conditions	Task should be performed at any time, at facilities available to the unit.	
NOTE &	This task is not required to be performed at units located in District 7, 8, 14, and San Diego.	Activities
Standards	In response to the instructor, the trainee shall, without error, don a boat crew dry	suit.
	Performance Criteria	Completed (Initials)
1. State the proper thermal pr	otective layers to be worn under the boat crew dry suit.	
WARNING 💖 Co	tton undergarments other than underwear are NOT authorized.	
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.		
	r inspecting neck and wrist seals as well as general boat crew dry suit condition. or sizing neck and wrist seals. State problems that would make a boat crew dry	
5. State requirements and pro	per methods for maintenance and stowage of the boat crew dry suit.	
Instructor Date Comments		



TASK BCM-02-07-ANY: Identify Boat Crew Survival Vest Equipment

References a. Boat Crew Seamanship Manual, COMDTINST M16114.5 (series)

b. Rescue and Survival Systems Manual, COMDTINST M10470.10 (series)

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

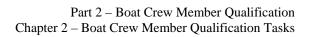
Performance Criteria		Completed (Initials)	
1.	State from memory the proper location and contents of the boat crew survival vest.		
2.	Identify each item from the vest and explain its use:		
	a.	Emergency signal mirror	
	b.	Signal whistle	
	c.	MK-124 marine smoke and illumination signal	
	d.	MK-79 signal kit	
	e.	Distress signal light	
	f.	Survival knife	
	g.	PLB "Personal Locator Beacon"	
3.	State	when the boat crew survival vest is required to be worn.	

Instructor	Date	
Comments		
TASK BCM-02-08-ANY:	Use the Emergency Signaling Mirror	
References	a. Boat Crew Seamanship Manual, COMDTINST M16114.5 (series)	
	b. Manufacturer Guidelines	
	c. Rescue and Survival Systems Manual, COMDTINST M10470.10 (series)	
Conditions	Task shall be performed while floating in water deeper than the trainee's height, during daylight hours. Trainee should be wearing survival gear consistent with the weather and water temperature and a boat crew personal survival vest. Sunlight should be reflected onto a predetermined target (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 instructor.	

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



Ins	tructor	r	Date	
Co	mment	S		
		-		
TA	SK BC	CM-02-09-ANY:	Demonstrate the Use of the MK-124 Smoke and Illumination Signal	
Ref	ference	es	a. Boat Crew Seamanship Manual, COMDTINST M16114.5 (series)b. Rescue and Survival Systems Manual, COMDTINST M10470.10 (series)	
Conditions		ıs	Task is accomplished in two parts:	
			Ashore - Trainee identifies the signal ends and describes sequence required to ig Identification of signal ends should be done in a well-darkened room. Afloat - In water deeper than the trainee's height, activate the signal. Trainee she survival gear consistent with the weather and water temperature and a boat survival vest. Either end of the signal can be activated.	ould wear
			Trainee must accomplish the task without prompting or use of a reference.	
Standards		5	Trainee must immediately identify the signal. Trainee must be able to distinguis day and night ends of the signal by touch alone. Trainee must be able to activate while floating within one minute of receiving a signal from the instructor.	
		NOTE &	The requirement for the trainee to activate the signal may be waived if adequate the signal are not available for training. If this requirement is waived, the traine writing the procedures and safety precautions to be followed when igniting the	ee shall list in
			Performance Criteria	Completed (Initials)
1.	Comp	olete the following tas	ks ashore:	
	a.	Identify and break ou	-	
	b.	Identify day and nigh	at ends of the signal by touch alone.	
2.	Comp	olete the following tas	ks in the water:	
	a.	Break out signal while	le floating.	
	b.	Remove cap on end of	-	
	c.	Extend plastic lever of	•	
	d.	Hold signal downwir from dry debris.	nd, at arms length, at 45° angle from the horizon over the side of the raft or away	
	e.	Pull down on tab to i	gnite signal.	
Ins	tructor	r	Date	
Co	mment	is —————		

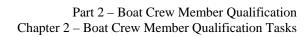




	ΓASK BCM-02-10-ANY: Demonstrate the Use of the MK-79 Illumination Signal Kit	
References	a. Boat Crew Seamanship Manual, COMDTINST M16114.5 (series) b. Rescue and Survival Systems Manual, COMDTINST M10470.10 (series) Task must be accomplished while afloat in water deeper than the trainee's height during daylight hours. Trainee should wear survival gear consistent with the weather and water temperature, and a boat crew personal survival vest. Trainee should not fire the cartridge until directed by the instructor. Trainee must accomplish the task without prompting or use of a reference. Trainee must immediately identify the signal. Trainee must be able to load the cartridge into the launcher and fire, or simulate firing, the signal within two minutes of receiving a signal from the instructor. All steps must be done in the order listed.	
Conditions		
Standards		
NOTE &	The requirement for the trainee to activate the signal may be waived if adequate of the signal are not available for training. If this requirement is waived, the trainee writing the procedures and safety precautions to be followed when igniting the M	shall list in
	Performance Criteria	Completed (Initials)
1. Identify and break out MK	-79 signal kit.	
2. Break out launcher and bar	ndoleer from plastic envelope.	
3. Pull trigger screw of launch	her into safety slot.	
4. Bend protective tab away f	from the signal.	
• • •	from the signal. launcher and rotate clockwise until signal is seated.	
5. Load signal cartridge into l		
5. Load signal cartridge into l6. Hold launcher over head w	launcher and rotate clockwise until signal is seated.	
5. Load signal cartridge into l6. Hold launcher over head w7. On command of the instruction	launcher and rotate clockwise until signal is seated. vith arm fully extended. Point launcher away from the body on a slight angle.	



TASK BCM-02-11-ANY:	Operate the Distress Signal Light	
References	a. Boat Crew Seamanship Manual, COMDTINST M16114.5 (series)	
	b. Rescue and Survival Systems Manual, COMDTINST M10470.10 (series)	
Conditions	Task must be accomplished while afloat in water deeper than the trainee's height during daylight hours. Trainee should wear survival gear consistent with the weather and water temperature, and a boat crew personnel survival vest. Trainee must accomplish task without prompting or use of a reference.	
Standards ②	Trainee must immediately identify the signal. Trainee must be able to break out a signal within one minute of entering the water or being given a signal by the instruction.	
	Performance Criteria	Completed (Initials)
1. Locate and remove the dist	ress signal light from its case.	
2. Activate strobe light.		
Instructor Comments	Date	
		
TASK BCM-02-12-ANY:	Operate the Personal Locator Beacon	
References	a. Personal Locator Beacon Operator's Manual	
	b. Rescue and Survival Systems Manual, COMDTINST M10470.10 (series),	
Conditions	Task should be performed at any time, at facilities available to the unit. Trainee n accomplish task without prompting or use of a reference.	nust
Standards ②	In response to the instructor, the trainee shall, without error, simulate the activation Personal Locator Beacon.	on of the
NOTE &	For the purpose of qualification and training, PLB shall not be activated unless uprescribed PMS Standards.	vithin
	Performance Criteria	Completed (Initials)
1. Locate and remove PLB.		
2. Simulate activation of unit.		
Instructor	Instructor Date	
Comments		





TASK BCM-02-13-ANY:	Don the Boat Crew Survival Vest
Reference	a. Rescue and Survival Systems Manual, COMDTINST M10470.10 (series)
Conditions	Task should be performed at any time, at facilities available to the unit.
Standards	In response to the instructor, the trainee shall, without error, don the boat crew survival vest.

Performance Criteria		
1.	1. Demonstrate proper donning of the boat crew survival vest over the following PFDs and adjust for proper fit:	
	a. Type III PFD	
	b. Dry Suit and Type III	
	c. Anti-exposure coverall	
2.	Access the following equipment:	
	a. Distress signal light	
	b. Whistle	
	c. Signal mirror	
	d. MK-124 day/night signal	
	e. MK-79 signal kit	
	f. Knife	
	g. PLB (if carried)	
	h. Tether (if carried)	
3.	State the requirements for when the boat crew survival vest is to be worn.	

Instructor	Date	
Comments		



1ASK BCWI-02-14-AN1;	Don the innatable PFD		
Reference	a. Rescue and Survival Systems Manual, COMDTINST M10470.10 (series)		
Conditions	Task should be performed at any time, at facilities available to the unit.		
NOTE &	NOTE & This qualification task is only required at units using inflatable PFDs.		
Standards ②	In response to the instructor, the trainee shall, without error, don the inflatable PF the policy associated with the attached survival equipment.	FD and explain	
	Performance Criteria	Completed (Initials)	
1. Complete the Performance	Qualification Standard for each inflatable PFD type in use at the unit.		
	Place the original PQS for the Inflatable PFD in the trainee's Training Record/E-Training system.		
	FD is required to be worn. State the policy associated with carrying required as part of the inflatable PFD outfit in lieu of wearing the boat crew survival vest.		
3. Access the following equip	ment:		
a. Distress signal light			
b. Whistle			
c. Signal mirror			
d. MK-124 day/night si	gnal		
e. MK-79 signal kit			
f. Knife			
g. PLB (if carried)			
h. Tether (if carried)			
4. State the requirements and	proper methods for maintenance and stowage of the inflatable PFD.		
Instructor	Date		
Comments			



TASK BCM-02-15-TYPE	Explain the Manual Deployment and Boarding Procedures for the Rescue and Survival Raft			
NOTE &	This qualification task is only required at units using a	Rescue and Survival	Raft.	
References	a. Boat Crew Seamanship Manual, COMDTINST MI			
Conditions	b. Rescue and Survival Systems Manual, COMDTINST M10470.10 (series) Task should be performed only for those boats equipped with a life raft. Task may be performed at any time. Trainee must accomplish the task without prompting or the use of a reference.			
Standards ②	Trainee should be able to identify equipment and cite steps in the procedures without error. When practical, consideration should be given to deploying the raft for training (i.e., prior to yearly inspection).			
	Performance Criteria	Completed (Initials)	Boat Type	
Identify and locate raft an	nd container.			
2. List and explain procedur	res for deploying and manning the raft.			
3. Explain best location to d	eploy the raft dependent upon environmental conditions.			
4. Remove raft from rack.				
5. Place raft in water in best	location for boarding.			
6. Pull the 50 FT painter line from the raft container to inflate raft.				
7. Board raft from alongside	e boat, if possible.			
Instructor		Date		
Comments				



TASK BCM-02-16-TYPE	List Survival Procedures in Event of Boat Capsize		
References	 a. Boat Crew Seamanship Manual, COMDTINST M16114.5 (series) b. Specific Boat Type Operator's Handbook, COMDTINST M16114 (series) Task should be performed at any time, onboard the unit's boats. Trainee must accomplish task without prompting or use of a reference. 		
Conditions			
Standards	Trainee should be able to list all steps in the procedure wit	thout error.	
	Performance Criteria	Completed (Initials)	Boat Type
1. State all egress routes in	n order of precedence.	=	
2. Locate nearest exit to op	oen water.		
3. Inventory survival gear.			
4. Select best swimmer to	exit first carrying line.		
5. First swimmer exits craft	ft, if necessary, with PFD in hand.		
6. First swimmer contacts	crew still inside by tapping on the hull of the boat.		
7. Rest of crew exits one a	t a time.		
8. Crew activates PLB/EP	IRB and stays with the boat until rescued or boat sinks.		
Instructor		Date	
Comments			



TASK BCM-02-17-ANY:

Open Water Survival Skills



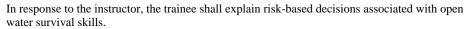
References

- a. Boat Crew Seamanship Manual, COMDTINST M16114.5 (series)
- b. Rescue and Survival Systems Manual, COMDTINST M10470.10 (series)
- c. Team Coordination Training, COMDTINST 1541.1 (series)

Conditions

Task should be performed at any time, at facilities available to the unit.

Standards





	Performance Criteria	Completed (Initials)			
1.	Explain the benefits associated with the different levels of hypothermia protective garments and how they relate to Tables 3-1 and 3-2 of the <i>Rescue and Survival Systems Manual</i> .				
2.	Explain the factors that accelerate the onset of hypothermia.				
3.	Describe the preventive measures that can be used to increase the chances for successful open water survival including methods of tethering.				
4.	Explain the benefits for getting your body out of the water as much as possible in open water survival situations.				
5.	Explain risk-based decisions associated with swimming in open water survival situations.				
6.	Describe the method for:				
	a. Climbing onto an overturned boat hull.				
	b. Boarding a boat from the water.				
	c. Boarding a life raft.				
Instructor Date					
Co	mments				



TASK BCM-02-18-ANY:	Perform Water Survival Exercise

References

- a. Boat Crew Seamanship Manual, COMDTINST M16114.5 (series)
- b. Rescue and Survival Systems Manual, COMDTINST M10470.10 (series)

Conditions

This exercise shall be completed by entering water from a height of approximately 3 FT above the surface or from the level of the boat's main deck. Trainee shall wear flotation, hypothermia protective garments and survival equipment consistent with the coldest weather and water temperature experienced at the unit. If this task is completed near a boat or unit docks, ensure the area is free of any dangers (i.e., debris, snags, shoals, excess currents, or biological hazards). An immediate means of response must be available to assist any member that develops trouble during the completion of this task. Trainee shall accomplish task without prompting or use of a reference.

Standards



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

		Completed
	Performance Criteria	(Initials)
1.	Don flotation, hypothermia protective garments and survival equipment, and adjust for proper fit. Personnel wearing dry suits shall don the required attached hood or neoprene after entering the water.	
3.	 Enter the water from a height of approximately 3 FT or from the level of the boat's main deck. a. Check surrounding water for debris and depth. b. Look straight ahead when entering water, but maintain awareness of surroundings (i.e., boat movement, wave action, currents). c. Maintain vertical position (body erect) upon entry into water. d. Minimize initial immersion by spreading arms and applying a scissors kick upon entry. Adjust flotation, hypothermia protective garments and survival equipment to reduce water intrusion and heat loss and to improve mobility and buoyancy. 	
4.	Swim 100 yards using an energy-conserving stroke or movement.	
	NOTE & The preferred swim stroke is the resting backstroke.	
5.	Demonstrate the Heat Escape Lessening Position (HELP) for a single person in the water.	
6.	Tether to other survivors and demonstrate the HELP for multiple survivors.	
7.	Access and demonstrate the use of the following equipment: a. Distress signal light b. Whistle c. Signal mirror d. MK-124 day/night signal e. MK-79 signal kit f. Knife g. PLB h. Tether (if carried)	
Ins	tructor Date	
Co	mments	



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

Introduction

The following are objectives of This Section:

Identify, **explain** the use of, and be able to consistently tie the basic knots and hitches used aboard emergency and law enforcement maritime platforms.

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

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

In this section

This section contains the following tasks:

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Task Number	Task	See Page
BCM-03-01-ANY	State Common Boat Nomenclature and Terminology	2-25
BCM-03-02-TYPE	Locate and Identify the Purpose of the Equipment Aboard the Boat	2-25
BCM-03-03-TYPE	Boat Characteristics - Boat Construction	2-26
BCM-03-04-TYPE	Boat Characteristics - Watertight Integrity	2-26
BCM-03-05-TYPE	Stability	2-27
BCM-03-06-ANY	Identify the Different Parts of a Line and the Hitches Used in Line Handling	2-28
BCM-03-07-ANY	Tie Various Knots, Hitches and Bends	2-29
BCM-03-08-ANY	Secure Lines to Cleats, Bitts and Posts	2-29



TASK BCM-03-01-ANY:	State Common Boat Nomenclature and Terminology		
Reference	a. Boat Crew Seamanship Manual, COMDTINST M16114.5 (series) Task should be performed onboard one of the unit's boats. Trainee must accomplish the task without prompting or use of a reference.		
Conditions			
Standards	In response to the instructor, the trainee must, without err	or, identify different l	ocations and
	positions aboard the boat.		
	Performance Criteria		Completed (Initials)
1. Identify bow of the boat.			
2. On command, move forw	vard on the boat.		
3. Identify starboard side of	boat.		
4. Identify port side of boat			
5. Identify athwartships.			
6. Identify outboard and int	oard areas.		
7. Identify stern of the boat.			
8. Identify port quarter.			
9. Identify starboard bow.			
10. Identify windward and le	eward side of the boat.		
Instructor		Date	
Comments			
TASK BCM-03-02-TYPE:	Locate and Identify the Purpose of the Equipment Abo	oard the Boat	
Reference	a. Boat Crew Seamanship Manual, COMDTINST M10	6114.5 (series)	
Conditions	Task should be performed using a simple line diagram of outfit list. Trainee should list the location of each piece of must accomplish the task without prompting or use of a r	of equipment on the di	
Standards	Trainee must label and explain the use of installed equip	nent and fittings.	
	Performance Criteria	Completed (Initials)	Boat Type
1. Label each piece of equip	oment or fitting.		
Instructor		Date	



Comments				
TASK BCM-03-03-TYPE:				
Reference	a. Boat Crew Seamanship Manual, COMDTINST M161	14.5 (series)		
Conditions	Task should be performed at any time, at facilities available	e to the unit.		
Standards	Trainee must demonstrate knowledge of each task.			
	Performance Criteria	Completed (Initials)	Boat Type	
1. Name and define the three	e basic types of hulls.			
2. Define keel and name the	two keel types.			
3. Name and define the mos length, freeboard, and dra	t common boat measurements (beam, height, fixed height, ftt).			
4. Name the parts of doors a	and hatches that are used to make them watertight.			
5. Name and define the mea	surements used to define boat displacement.			
Instructor		Date		
Comments				
TASK BCM-03-04-TYPE:	Boat Characteristics - Watertight Integrity			
Reference	a. Boat Crew Seamanship Manual, COMDTINST M161	14.5 (series)		
Conditions	Task should be performed at any time, onboard the unit's be without prompting or use of a reference.	poats. Trainee must a	accomplish task	
Standards	Trainee must either demonstrate knowledge of or perform	each task.		



			*	
		Performance Criteria	Completed (Initials)	Boat Type
1.	State the watertight compa	artments of each boat type.		
2.	Describe the factors that shatches, and scuttle covers	hould be determined before you open watertight doors,		
	natches, and seutile covers	on a damaged boat.		
3.	Open a watertight door an	d hatch.	<u> </u>	
4.	Close a watertight door an	d hatch.		
Inst	ructor		Date	
Cor	mments			
TASK BCM-03-05-TYPE:		Stability 3		
Reference		a. Boat Crew Seamanship Manual, COMDTINST M10	5114.5 (series)	
Conditions		Task should be performed at any time, at facilities availal	ole to the unit.	
Sta	ndards	Trainee must either demonstrate knowledge of or perform	n each task.	

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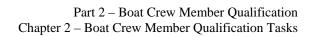
	Performance Criteria	Completed (Initials)	Boat Type
1.	State the two primary forces that affect a boat's stability.		
2.	Define center of gravity and describe how it changes as weight is added to or subtracted from the boat.		
3.	Define buoyancy.		
4.	Define equilibrium and describe how it is changed during rolling, heeling and listing.		



		Performance Criteria	Completed (Initials)	Boat Type	
5.	State the two types of state	ility.			
6.	Describe the two types of	forces that affect stability.			
7.	List the general boat desig	n features that influence stability.			
	tructor		Date		
Co	mments				
TA	SK BCM-03-06-ANY:	Identify the Different Parts of a Line an	d the Hitches Used in Line Handling		
Re	ference	a. Boat Crew Seamanship Manual, CO	ship Manual, COMDTINST M16114.5 (series)		
Co	nditions	Task should be performed at any time, asl reference.	ore or afloat, without prompting or use of a		
Standards		In response to the instructor, the trainee n configuration of a line.	nust, without error, identify the differen	t parts and	
		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 do c. Natural fiber	uble braid			
3.	Identify bitter end of line.				
4.	4. Identify standing part of line.				
5.	Make bight in the line.				
6.	Make overhand loop in th	e line.			
7.	Make underhand loop in t	he line.			
8.	Make turn around an obje	et.			
9.	Make round turn around a	n object.			



Instructor		Date	
Commer	nts		
TASK B	CM-03-07-ANY:	Tie Various Knots, Hitches and Bends	
Reference	ce	a. Boat Crew Seamanship Manual, COMDTINST M16114.5 (series)	
Conditio	ons	Task should be performed at any time, onboard one of the unit's boats, cutter, or pier, without prompting or use of a reference.	at the unit's
Standard	ds	In response to the instructor, the trainee must, without error, tie the following hit bends quickly and confidently.	ches, knots and
		Performance Criteria	Completed (Initials)
1. Tie	a square (reef) knot.		
2. Tie	bowline in the end of	a mooring line.	
3. Put	a temporary eye in to	wline, using a bowline.	
4. Unti	ie knot by "breaking"	the bowline.	
5. Seci	ure line to a rail using	g a clove hitch.	
6. Seci	ure clove hitch by usi	ng two half hitches.	
7. Mou	unt fender using a slip	o clove hitch.	
8. Atta		owline using a sheet bend, snap hook, bowline and/or clove hitch with two half	
9. Add	l length of mooring li	ne to a towline using a double becket bend.	
10. Secu	ure log, board or othe	r rough surfaced object by using a timber hitch and two half hitches.	
11. Tie	bowline around an ob	oject.	
Instructo	or	Date	
Commer	nts		
TASK B	CM-03-08-ANY:	Secure Lines to Cleats, Bitts and Posts	
Reference		a. Boat Crew Seamanship Manual, COMDTINST M16114.5 (series)	
Conditio	ons	Task should be performed at any time, onboard one of the unit's boats, cutter, or pier, without prompting or use of a reference.	at the unit's
Standards		In response to the instructor, the trainee must demonstrate the correct method for line to cleats, bitts and posts.	securing a





	Performance Criteria	Completed (Initials)
1.	Locate all standard cleats on boat.	
2.	Place complete round turn around the base of the cleat.	
3.	Lead line over the top of the cleat and around the horns to form a figure eight.	
4.	Secure additional figure eights until the cleat is secured with at least three figure eights.	
5.	Feed eye of the line through the opening in the base of the cleat.	
6.	Loop line back over horns and pull taut.	
7.	Place eye of first mooring line over the cleat.	
8.	Run eye of second mooring line through the eye of the first.	
9.	Place eye of second mooring line over the cleat.	
10.	Identify and locate all bitts on boat.	
11.	Make a complete turn around the near horn.	
12.	Make three or more figure eights around both horns.	
13.	Identify and locate Samson post on boat.	
14.	Make complete round turn around the base of the Samson post.	
15.	Make several figure eights around horns of the post.	
Instructor Date		Date
Cor	Comments	



Section D. Boat Handling

Introduction

The following are objectives of this section:

Define the common terms used for identification aboard an emergency response or law enforcement vessel.

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

Demonstrate the ability to participate in the common watches performed aboard emergency or law enforcement boats.

In this section

This section contains the following tasks:



Task Number	Task	See Page
BCM-04-01-ANY	Rig Fenders to Side of the Boat	2-32
BCM-04-02-TYPE	Make Fast a Boat to a Pier (Bow On Mooring, No Current/Wind)	2-32
BCM-04-03-TYPE	Assist in Anchoring the Boat	2-33
BCM-04-04-TYPE	Assist in Weighing the Boat's Anchor	2-34
BCM-04-05-ANY	Identify the Common Navigation Lights Displayed by Ships and Boats	2-35
BCM-04-06-ANY	Identify the Common Sound Signals Used by Ships and Boats	2-36
BCM-04-07-ANY	Identify and Describe Accepted Maritime Distress Signals	2-36
BCM-04-08-ANY	Stand a Lookout Watch	2-37
BCM-04-09-ANY	Act as a Helmsman and Steer a Compass Course	2-38
BCM-04-10-TYPE	Get the Boat Away from a Pier/Cutter	2-38
BCM-04-11-TYPE	Moor the Boat to a Pier/Cutter	2-39
BCM-04-12-TYPE	Boat Handling	2-40



Rig Fenders to Side of the Boat TASK BCM-04-01-ANY: Boat Crew Seamanship Manual, COMDTINST M16114.5 (series) Reference **Conditions** Task should be performed at any time onboard a unit boat, without prompting or the use of a reference. **Standards** In response to the instructor, the trainee must correctly rig fenders to the side of the boat. Fenders should be the proper height to avoid damage. Completed **Performance Criteria** (Initials) Tie fenders in place using a slip clove hitch. Position all fenders appropriately for width and height of pilings and piers. Place fenders at contact points between boat and pier, dock or another boat. Instructor Date **Comments** TASK BCM-04-02-TYPE: Make Fast a Boat to a Pier (Bow On Mooring, No Current/Wind) Boat Crew Seamanship Manual, COMDTINST M16114.5 (series) References b. Chapman Piloting **Conditions** Task should be performed at any time, onboard the unit's boats. Trainee must accomplish task without prompting or use of a reference. **Standards** In response to the instructor, the trainee must demonstrate, in proper sequence, the correct procedures for securing a boat to a pier using the boat's mooring lines. Completed Boat Performance Criteria (Initials) Type 1. Place forward spring line on pier cleat tended and secure to the boat. Place stern line on pier cleat and secure to the boat.

Place bow line on pier cleat and secure to the boat.



	Completed (Initials)	Boat Type		
4. Place aft spring line on pic				
Instructor		Date		
Comments				
TASK BCM-04-03-TYPE:	Assist in Anchoring the Boat			
Reference	a. Boat Crew Seamanship Manual, COMDTINST M16	114.5 (series)		
Conditions	Task should be performed at any time, onboard the unit's be without prompting or use of a reference.	ooats. Trainee must	t accomplish task	
Standards (2)	In response to the instructor, trainee must demonstrate, in procedure for anchoring the boat.	proper sequence, the	e correct	

	Performance Criteria	Completed (Initials)	Boat Type
1.	State the main parts of the anchor.		
2.	State the equipment associated with anchoring.		
3.	Establish communications with Coxswain during the evolution.		
4.	Ascertain amount of scope needed based on depth of water and type of bottom.		
5.	Break out and attach anchor line to anchor.		
6.	Deploy anchor by safest means.		
7.	Inform Coxswain of direction line tending at all times as anchor line pays out (veers).		



	Completed (Initials)	Boat Type	
8. Secure anchor line to bitt a	at Coxswain's command.		
Instructor		Date	
Comments			
TASK BCM-04-04-TYPE:	Assist in Weighing the Boat's Anchor		
Reference	a. Boat Crew Seamanship Manual, COMDTINST M16	114.5 (series)	
Conditions	Task should be performed at any time, onboard the unit's be without prompting or use of a reference.	poats. Trainee mus	t accomplish task
Standards The trainee must demonstrate, in proper sequence, the procedures for weighing the boat's anchor.		g the boat's	

	Performance Criteria	Completed (Initials)	Boat Type
1.	Establish communications with Coxswain.		
2.	Remove slack from anchor line as boat moves ahead.		
3.	Stow anchor line below deck, away from work area, immediately as it is brought aboard.		
4.	Signal to Coxswain when the anchor line is at short stay (up and down).		
5.	Break anchor free from bottom (if anchor does not break free, trainee makes fast anchor line to bitt while Coxswain moves the boat ahead to break it free).		
6.	Determine if anchor is clear and clean.		



		*		
	Performance Criteria	Completed (Initials)	Boat Type	
7. Haul anchor aboard the boat.				
8. Make up and stow all equ	ipment.			
Instructor		Date		
Comments				
		(C		
TASK BCM-04-05-ANY:	Identify the Common Navigation Lights Displayed by	Ships and Boats		
References	a. Chapman Piloting			
	b. Navigation Rules International-Inland, COMDTINST M16672.2 (series)			
Conditions	Task should be performed at night, onboard any unit boat or cutter. Trainee must identify the types of lights when presented with pictures or actual lights by the instructor. The navigation			
	rules used should be those used in the unit's area of open			
Cton dondo	task without prompting or use of a reference.	ee must, without error, verbally identify the lights listed		
Standards	below.	itor, verbany identity ti	ie fights fisted	
			_	
	Performance Criteria		Completed (Initials)	
1. Identify port side light.				
2. Identify starboard side lig	ht.			
3. Identify stern light.				
4. Identify anchor light.				
5. Identify towing lights.				
6. Identify sailboat masthead	l light.			
7. Identify bow combination	light for boats.			
Turatura at an		D-4-		
Instructor		Date		
Comments				



TASK BCM-04-06-ANY:	Identify the Common Sound Signals Used by Ships and Boats		
References a. Chapman Piloting b. Navigation Rules International-Inland, COMDTINST M16672.2 (series)			
Conditions	Task should be performed at any time, onboard any unit boat or cutter. Trainee must identify the sound signals when presented with examples of the signals. The navigation rules used should be those used in the unit's area of operations. Trainee must accomplish the task with prompting or use of a reference.		
Standards ②	In response to the instructor, the trainee must, without error, verbally identify the below.	e signals listed	
	Performance Criteria	Completed (Initials)	
1. Identify short blast.			
2. Identify prolonged blast.			
3. Identify danger signal.			
4. Identify signal for intention	on, coming to port (inland).		
5. Identify whistle signal for	sailing vessels during periods of reduced visibility.		
Instructor Date			
Illstructor	Date		
Comments	Date		
	Date		
	Identify and Describe Accepted Maritime Distress Signals		
Comments	Identify and Describe Accepted Maritime Distress Signals a. Boat Crew Seamanship Manual, COMDTINST M16114.5 (series)		
TASK BCM-04-07-ANY:	Identify and Describe Accepted Maritime Distress Signals		
TASK BCM-04-07-ANY:	Identify and Describe Accepted Maritime Distress Signals a. Boat Crew Seamanship Manual, COMDTINST M16114.5 (series)	must	
TASK BCM-04-07-ANY: References	Identify and Describe Accepted Maritime Distress Signals a. Boat Crew Seamanship Manual, COMDTINST M16114.5 (series) b. Navigation Rules International-Inland, COMDTINST M16672.2 (series) Task should be performed at any time, at facilities available to the unit. Trainee		
TASK BCM-04-07-ANY: References Conditions	Identify and Describe Accepted Maritime Distress Signals a. Boat Crew Seamanship Manual, COMDTINST M16114.5 (series) b. Navigation Rules International-Inland, COMDTINST M16672.2 (series) Task should be performed at any time, at facilities available to the unit. Trainee accomplish the task without prompting or use of a reference. The trainee must, without error, verbally identify the distress signals listed below		
TASK BCM-04-07-ANY: References Conditions	a. Boat Crew Seamanship Manual, COMDTINST M16114.5 (series) b. Navigation Rules International-Inland, COMDTINST M16672.2 (series) Task should be performed at any time, at facilities available to the unit. Trainee accomplish the task without prompting or use of a reference. The trainee must, without error, verbally identify the distress signals listed below an illustration of each distress signal by the instructor.	v when given Completed	
TASK BCM-04-07-ANY: References Conditions Standards	Identify and Describe Accepted Maritime Distress Signals a. Boat Crew Seamanship Manual, COMDTINST M16114.5 (series) b. Navigation Rules International-Inland, COMDTINST M16672.2 (series) Task should be performed at any time, at facilities available to the unit. Trainee accomplish the task without prompting or use of a reference. The trainee must, without error, verbally identify the distress signals listed below an illustration of each distress signal by the instructor. Performance Criteria	v when given Completed	

3.	Orange smoke marker.	
4.	Dye marker (any color).	
5.	Red parachute flare.	
6.	Flames on a boat.	



	Performance Criteria	Completed (Initials)	
7. November code flag flown	n over the "Charlie" code flag.		
8. Emergency Position Indica	ating Radio Beacon (EPIRB).		
9. Orange board with a black	square over a black circle.		
10. "MAYDAY" radio broado	east.		
11. Person waving arms.			
12. A signal consisting of a sq	uare flag having above or below it a ball or anything resembling a ball.		
13. Radio telephone alarm.			
14. Radio telegraph alarm.			
15. SOS – Morse code signal.			
16. Gun fired at intervals of or	ne minute.		
17. High intensity white light	flashing at intervals of 50 to 70 times per minute (inland waters only).		
Instructor	Date		
Comments			
TASK BCM-04-08-ANY:	Stand a Lookout Watch		
References	a. Boat Crew Seamanship Manual, COMDTINST M16114.5 (series)		
	b. Navigation Rules International-Inland, COMDTINST M16672.2 (series),	Rule 5	
Conditions	Task should be performed at any time, onboard any of the unit's boats or cutter report the range and relative bearing of objects identified by the instructor. Transaccomplish the task without prompting or use of a reference.		
Standards	In response to the instructor, the trainee must, without error, identify objects and	d state relative	
	bearing and range.		
	Performance Criteria	Completed (Initials)	
1. List the different types of l	buoys and their characteristics in the local area and the purpose of each.		
2. Identify three different loc	al fixed aids.		
3. Identify and report the range	ge and relative bearing of four different type vessels, common to the local area.		
4. Identify and report range a	and relative bearing to deadhead and/or other floating hazard to navigation.		
5. Identify whistle, bell, gong	5. Identify whistle, bell, gong, and/or other local audio aids to navigation.		
6. Recognize and report different boat crossing situations.			
7. Recognize and report meeting situations.			
8. Recognize and report over	taking situations.		
Instructor	Date		



Comments			
TASK BCM-04-09-ANY:	Act as a Helmsman and Steer a Compass Course		
Reference	a. Boat Crew Seamanship Manual, COMDTINST M161	14.5 (series)	
Conditions	Task should be performed at any time, onboard the unit's be without prompting or use of a reference.	ooats. Trainee must	accomplish task
Standards	In response to the Coxswain, the trainee must respond, with commands. All courses must be maintained to within 5° of		ıs helm
	Performance Criteria		Completed (Initials)
1. Steer on the course ordere	ed by the Coxswain.		
2. Maintain course to within	5° of ordered course over a 10-minute staged run.		
3. Alter course (at least 35°)	to new course on Coxswain's command.		
4. Steady boat up on new co	urse and hold to within 5° of ordered course.		
5. Monitor engine gauges.			
6. Keep careful watch of the	surrounding area.		
Instructor	Instructor Date		
Comments			
TASK BCM-04-10-TYPE:	Get the Boat Away from a Pier/Cutter		
References	a. Boat Crew Seamanship Manual, COMDTINST M161b. Chapman Piloting	14.5 (series)	
Conditions	Task should be performed at any time, onboard the unit's boat may be made fast to either side of the pier or mooring attached before task is begun. Trainee must accomplish the reference.	object. All moorin	g lines must be
Standards Trainee must perform the task in accordance with the procedures in the listed steps. endangering of personnel or boat will cause the task to be secured until further train accomplished.			
	Performance Criteria	Completed (Initials)	Boat Type
1. Brief crew on procedure to be used and their duties.			



		F	
	Performance Criteria	Completed (Initials)	Boat Type
2. Remove mooring lines from pier as directed.			
3. Clear stern of the boat fro	m the pier.		
4. Clear boat of pier.			
Instructor		Date	
Comments			
TASK BCM-04-11-TYPE:	Moor the Boat to a Pier/Cutter		
References	a. Boat Crew Seamanship Manual, COMDTINST M16b. Chapman Piloting	114.5 (series)	
Conditions	Task should be performed at any time, onboard the unit's Trainee must accomplish the task without prompting or us		lerate winds.
Standards ②	Trainee must perform the task in accordance with procedu endangering of personnel or boat will cause the task to be accomplished.		
	Performance Criteria	Completed (Initials)	Boat Type
Brief crew on procedure to	o be used and their duties.		
2. Demonstrate checking eng	gine control (forward and reverse on each engine.)		
3. Approach slowly.			
4. Apply appropriate power	and rudder, use spring line if desired.		
5. Bring boat alongside.			



Performance Criteria		Completed (Initials)	Boat Type
6. Secure lines.			
Instructor		Date	
Comments			
TASK BCM-04-12-TYPE:	Boat Handling		
Reference	a. Boat Crew Seamanship Manual, COMDTINST M161	14.5 (series)	
Conditions	Task should be performed at any time, onboard the unit's be Trainee must accomplish the task without prompting or use		derate winds.
Standards ②	Trainee must perform each task to the minimum standards Any endangering of personnel or boat will cause the task to be accomplished.		

	Performance Criteria	Completed (Initials)	Boat Type
1.	Determine the rudder limits.		
2.	Check engine control action.		
3.	Move boat forward in a straight line.		
4.	Maintain safe speed for trainee's ability and weather conditions.		
5.	Adjust speed to ensure wake causes no damage or injuries.		
6.	Turn the boat with the helm.		



	Performance Criteria	Completed (Initials)	Boat Type
7.	Stop the boat in a safe manner.		
8.	Hold a course while backing the boat.		
9.	Rotate boat about the pivot point.		
10.	Turn boat with a reduced tactical diameter.		
Ins	tructor	Date	
Co	mments		



Section E. Communications

Introduction

The following are objectives of this section:

Demonstrate the ability to operate a VHF-FM radiotelephone and the SSB-HF transceiver.

Demonstrate the ability to use the radiotelephone to give a position or operations report.

In this section

This section contains the following tasks:







Task Number	Task	See Page
BCM-05-01-ANY	Operate a VHF-FM Radiotelephone	2-42
BCM-05-02-ANY	Operate an Agency Radio/Transceiver	2-43
BCM-05-03-ANY	Use the VHF-FM Radiotelephone to Give an Operations and Position Report	2-44

TASK BCM-05-01-ANY:

Operate a VHF-FM Radiotelephone



References

- a. Boat Crew Seamanship Manual, COMDTINST M16114.5 (series)
- b. Radiotelephone Handbook, COMDTINST 2300.7 (series)

Conditions

Task should be performed at any time, onboard one of the agency's boats. Trainee must accomplish task without prompting or use of a reference.

Standards



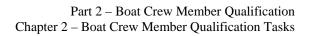
In response to the instructor, the trainee must, without error, identify the different operating parts of the radio and operate the radio.

	Performance Criteria	Completed (Initials)
1.	Identify VHF-FM transceiver and speakers.	
2.	Identify breaker that energizes radio.	
3.	Identify power switch and turn radio on.	
4.	Identify channel selection switch or buttons for emergency and working frequencies.	
5.	Identify volume controls and adjust volume.	
6.	Identify squelch control and adjust to the point where static disappears.	
7.	Identify microphone and transmitting button and obtain a radio check on appropriate working frequency.	
	NOTE & No radio checks are permitted on the International VHF distress and calling frequency, Channel 16.	

Instructor	Date	
Comments	·	



TASK BCM	I-05-02-ANY:	Y: Operate an Agency Radio/Transceiver		
References		 a. Boat Crew Seamanship Manual, COMDTINST M16114.5 (series) b. Radiotelephone Handbook, COMDTINST M2300.7 (series) c. Radio/Transceiver - Operator's Manual 		
Conditions		Task should be performed at any time, onboard one of the unit's boats or a cutter radio onboard. Trainee must accomplish task without prompting or use of a refer		
Standards		In response to the instructor, the trainee must, without error, identify the different parts of the radio and operate the radio.	operating	
		Performance Criteria	Completed (Initials)	
1. Identify	transceiver and	speakers.		
2. Identify	power switch a	nd turn radio on.		
3. Identify	channel selection	on switch or buttons and select frequency.		
4. Identify	and adjust volu	me control.		
5. Identify	and adjust sque	lch control to just beyond the point where the static disappears.		
6. Identify	microphone and	d operating button and demonstrate radio check on appropriate working frequency.		
NO	OTE &	No radio checks are permitted on the International Medium Frequency (MF) distress and calling frequency 2182KHZ.		
Instructor	Instructor Date			
Comments				





TASK BCM-05-03-ANY:	Use the VHF-FM Radiotelephone to Give an Operations and Position Report			
References	a. Boat Crew Seamanship Manual, COMDTINST M16114.5 (series)b. Radiotelephone Handbook, COMDTINST M2300.7 (series)			
Conditions	Task should be performed at any time, onboard one of the unit's boats or a cutter. Message to be sent should be composed by the trainee and the instructor prior to the beginning of the task. Trainee must accomplish task without prompting or use of a reference.			
Standards In response to the instructor, the trainee must, without error, send a short operations an position report. Task must be accomplished using proper radio telephone procedures, prowords and phonetic alphabet, in accordance with the above reference.				
	Performance Criteria	Completed		

	Performance Criteria	Completed (Initials)
1.	Turn on, tune, and set radio to unit's working frequency.	
2.	Hail Station using unit's 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.	
Ins	tructor	Date

Instructor	1	Date	
Comments		•	
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Section F. Navigation

Introduction

The following are objectives of this section:

Demonstrate the use of a nautical chart.

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

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

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

Demonstrate 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.

In this section

This section contain the following tasks:

0		

Task Number	Task	See Page
BCM-06-01-ANY	Identify the Symbols, Abbreviations and Basic Parts of a Nautical Chart	2-46
BCM-06-02-ANY	Identify Common Aids to Navigation Used for Inland and Coastal Piloting	2-47
BCM-06-03-ANY	Identify Local Landmarks on a Nautical Chart	2-47
BCM-06-04-ANY	Plot a Position Using Latitude and Longitude	2-48
BCM-06-05-ANY	Plot a Magnetic Course on a Nautical Chart	2-48
BCM-06-06-ANY	Measure Distance on a Nautical Chart	2-48
BCM-06-07-ANY	Compute Time, Speed and Distance	2-49
BCM-06-08-ANY	Determine the Depth of Water Using a Fathometer, Depth Sounder	2-50
BCM-06-09-TYPE	Use Radar to Identify Objects	2-50
BCM-06-10-TYPE	Determine the Range and Bearing to Objects Using Radar	2-52
BCM-06-11-TYPE	Use Radar to Obtain and Interpret Relative Bearings and Ranges to a Moving Target to Determine if Risk of Collision Exists	2-52
BCM-06-12-TYPE	Operate the VHF-FM Direction Finder and Steer on a Signal	2-53
BCM-06-13-TYPE	Obtain a Fix Using GPS/DGPS	2-54
BCM-06-14-TYPE	Plot a Position Using LORAN-C TDsLORAN	2-56
BCM-06-15-TYPE	Operate the Electronic Charting System	2-57



Comments

TA	ASK BCM-06-01-ANY: Identify the Symbols, Abbreviations and Basic Parts of a Nautical Chart		
Ref	Reference a. Boat Crew Seamanship Manual, COMDTINST M16114.5 (series)		
Conditions Task should be performed ashore or afloat, at any time, using a chart of the local area. must accomplish task without prompting or use of a reference.		l area. Trainee	
Standards In response to the instructor, the trainee must, without error, identify the different nautical chart listed in the steps below.		it parts of a	
		Performance Criteria	Completed (Initials)
1.	Identify the longitude scal	e.	
2.	Identify the latitude scale.		
3.	Identify horizontal and ve	rtical clearances of overhead bridges and cables.	
4.	Identify 1 NM using the la	atitude scale.	
5.	. Identify sounding numbers (feet/fathoms).		
6.	Identify depth curves (con	itours).	
7.	Identify the general inform	nation block.	
8.	Identify the scale of a char	rt.	
9.	Identify the latitude and lo	ongitude in minutes or seconds.	
10.	Identify different colors an	and stated meaning of each.	
11.	Identify the miles and yard	ds scale.	
12.	Identify aids to navigation	ı	
13.	3. Identify the symbol for prominent local landmarks.		
14.	Identify the compass rose	and indicate the purpose of each of its prominent parts.	
15.	Identify the symbol for a v	wreck, rock, or other submerged object.	
16.	Identify latest changes to	the chart determined by Notice to Mariners and Local Notice to Mariners.	
Inst	tructor	Date	

Identify all bridges and their types in the area.



TASK BCM-06-02-ANY:	Identify Common Aids to Navigation Used for Inland and Coastal Piloting	(2)		
References a. Boat Crew Seamanship Manual, COMDTINST M16114.5 (series)				
	b. Nautical Chart Symbols, Abbreviations, and Terms, Chart No. 1c. The American Practical Navigator			
Conditions	<u>-</u>			
Standards In response to the instructor, the trainee must, without error, identify the stated aids navigation and their corresponding chart symbols.		ds to		
	Performance Criteria	Completed (Initials)		
1. Identify a nun buoy and a c	can buoy.			
2. Identify a preferred channel	el buoy and state its purpose.			
3. Identify a day beacon.				
4. Identify an intracoastal was	terways (ICW) buoy and state its markings (if applicable).			
5. Identify ranges and state th	neir purpose.			
6. While underway, identify the unit's berths.	by type, number and characteristic the primary aids used for entering and exiting			
Instructor	Date			
Comments				
TASK BCM-06-03-ANY:	Identify Local Landmarks on a Nautical Chart			
References	a. Boat Crew Seamanship Manual, COMDTINST M16114.5 (series)			
	b. Nautical Chart Symbols, Abbreviations, and Terms, Chart No. 1			
Conditions	Task should be performed while underway, using a nautical chart of the unit's locarea. Trainee must accomplish task without prompting or use of a reference.	cal operating		
Standards (2)	In response to the instructor pointing out aids to navigation and prominent landmer trainee must, without error, correctly identify on the chart those objects.	arks, the		
	Performance Criteria	Completed (Initials)		
1. Identify all major piers and	docks in the area.			
2. Identify any prominent dar	ngerous submerged or semi-submerged rocks, shoals and structures.			
3. Identify all prominent subr	nerged or partially submerged wrecks in the area.			
4. Identify all prominent ante	nnas and towers used as navigational landmarks in the area.			
5. Identify all prominent build	dings and structures used as navigational landmarks in the area.			
6. Identify all prominent land	marks in the area.			



Instructor	Date	
Comments		
TASK BCM-06-04-ANY:	Plot a Position Using Latitude and Longitude	
References	a. Boat Crew Seamanship Manual, COMDTINST M16114.5 (series)	
	b. The American Practical Navigator	
Conditions	Trainee shall be given a nautical chart and five sets of coordinates expressed latitude. Trainee must plot the five coordinates without prompting or use of	
Standards	The trainee must, without error, plot the latitude and longitude coordinates we Positions must be within 100 yards.	ithin five minutes.
	Performance Criteria	Completed (Initials)
1. Plot five different position	ons on the chart within five minutes.	
Instructor	Date	
Comments		
FACE DOM OF OF ANY.	Plot a Magnetia Course on a Nautical Chart	
TASK BCM-06-05-ANY:	Plot a Magnetic Course on a Nautical Chart	
References	a. Boat Crew Seamanship Manual, COMDTINST M16114.5 (series)b. The American Practical Navigator	
Conditions	Trainee shall be given a nautical chart (scale 1:80,000 or less), the five positi TASK BCM-06-04-ANY, and five magnetic bearings (one bearing for each put accomplish task without prompting or use of a reference.	
Standards	The trainee must, without error, plot the courses indicated within five minute be accurate to within 3°.	s. Courses must
	Performance Criteria	Completed (Initials)
1. Plot five different course	s on the chart.	
Instructor	Date	
Comments		
TASK BCM-06-06-ANY:	Measure Distance on a Nautical Chart	



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Boat Crew Seamanship Manual, COMDTINST M16114.5 (series)

b. The American Practical Navigator

Conditions

Trainee shall be given a nautical chart (scale 1:80,000 or less) and the set of five positions plotted in task BCM-06-04-ANY on the chart (designated A through E). All distances must be measured using nautical miles or yards as indicated by the task steps. Trainee must accomplish task without prompting or use of a reference.

Standards



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

	Performance Criteria	Completed (Initials)
1. The distance from positi	on A to B is NMS.	
2. The distance from positi	on B to C is yards.	
3. The distance from positi	on C to D is yards.	
4. The distance from positi	on D to E is NMS.	
5. The distance from positi	on E to A is NMS.	
Instructor Comments TASK BCM-06-07-ANY:	Compute Time Speed and Dictores	
	Compute Time, Speed and Distance	
References	a. Boat Crew Seamanship Manual, COMDTINST M16114.5 (series)b. The American Practical Navigator	
		1 11 .
Conditions	Trainee shall be given a nautical chart, nautical slide rule, and the positions ar calculated in TASK BCM-06-06-ANY. All answers should be given to the nothour, knot, or nautical mile as indicated in the step. Trainee must accomplish prompting or use of a reference.	earest tenth of an

The Nautical Slide Rule may not be used for steps 2 and 5. In step 2 the trainee should also use speeds of 12 KTS, 6 KTS, and 3 KTS to demonstrate the 3-minute/6-minute rules.

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



nstructor Date		
Comments		
TASK BCM-06-08-ANY:	Determine the Depth of Water Using a Fathometer, Depth Sounder	
References	a. Boat Crew Seamanship Manual, COMDTINST M16114.5 (series)b. Appropriate Electronics Operator's Manuals	
Conditions Task should be performed at any time, while underway, onboard one of the Demonstration should be performed in an area known to have accurate characteristic Steps 1 through 3 should be accomplished in water greater than 5 fathoms. should be accomplished in water less than 30 FT. Trainee must accomplish prompting or use of a reference.		oundings. s 4 and 5
Standards In response to the instructor, the trainee must, without error, identify different parts of fathometer depth sounder and various functions. Soundings should be within 10% (a for range of tide) of the charted depth when working in water less than 30 FT. All of soundings should be within 2 fathoms of the charted depth.		% (allowing
	Performance Criteria	Completed (Initials)
1. Identify location of fatho	meter.	
2. Energize fathometer/dept	h sounder and related equipment as required.	
3. Adjust illumination, back	lighting and contrast as appropriate.	
4. Demonstrate entering "O	ffset Setup." Set appropriate depth.	
5. Correct "Offset Depth" in	n each piece of equipment as required.	
6. State the depth in three d	ifferent positions. Instructor should fix position and verify readings.	
Instructor	Date	
Comments		
-		
TASK BCM-06-09-TYPE:	Use Radar to Identify Objects	
References	 a. Boat Crew Seamanship Manual, COMDTINST M16114.5 (series) b. Radar Operator's Handbook c. The American Practical Navigator d. Specific Boat Type Operator's Handbook, COMDTINST M16114 (series) 	
Conditions Task should be performed at any time, while underway, onboard the unit's boats. All of the objects listed must be identified using the installed radar and a local area chart, and then verified by sight. Trainee must accomplish task without prompting or use of a reference.		nd then
Standards In response to the instructor, the trainee must, without error, correctly demonstrate the steps in the task.		te the steps in



	Performance Criteria	Completed (Initials)	Boat Type
1.	Turn radar power switch on and allow unit to warm up.		
2.	If applicable, demonstrate toggling between transmit and standby modes.		
3.	Turn radar for maximum target return as required.	·	·
			
4.	State the use of "gain," "sea clutter" and "rain clutter."		
			·
5.	Demonstrate adjusting Use of "gain," "sea clutter" and "rain clutter" as necessary.		
			
6.	If applicable, state the use of and demonstrate adjusting or enabling the following:		
	a. AT A/C automatic clutter control		
	b. Noise Rejection setting		
	c. Interference Rejection setting		
	d. Echo Stretch setting		
	e. Echo Avering settings		
	f. Echo Trails		
	g. Change Radar Presentation Modes (North up, True Motion, Head-up, Course-up)		
7.	Recognize and visually verify three different prominent landmarks.		
8.	Recognize and visually verify two different aids to navigation.		
9.	Recognize and visually verify two different moving targets.		
		·	·
10.	Identify a RACON on the radar screen (if applicable).		
_		_	
Ins	tructor	Date	
Cor	mments		



TASK BCM-06-10-TYPE:

Determine the Range and Bearing to Objects Using Radar



References

- a. Boat Crew Seamanship Manual, COMDTINST M16114.5 (series)
- b. Radar Operator's Handbook
- c. The American Practical Navigator

Conditions

Task should be performed at any time, while underway, onboard each of the unit's boats. Weather should be calm to moderate. All of the steps must be accomplished using the installed radar and a local area chart, and then verified by sight. Trainee must accomplish task without prompting or use of a reference.

Standards



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

	Performance Criteria	Completed (Initials)	Boat Type
1.	Turn radar on and tune as required for maximum target return.		
2.	Report the ranges to three different objects.		
3.	Report the lines of position (LOPs) to three different objects.		

Instructor	Date	
Comments		

TASK BCM-06-11-TYPE:

Use Radar to Obtain and Interpret Relative Bearings and Ranges to a Moving Target to

Determine if Risk of Collision Exists



References

- a. Knight's Modern Seamanship
- b. Navigation Rules International-Inland, COMDTINST M16672.2 (series)
- c. Radar Operator's Handbook
- d. The American Practical Navigator

Conditions

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

Standards



Trainee must be able to determine the relative motion of the target within a "reasonable" amount of time and recommend an adjustment to the boat's course to a risk of collision.



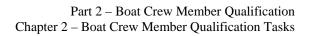
			(A)	
		Performance Criteria	Completed (Initials)	Boat Type
1. Identify a moving target on the boat's radar.				
2.	Use the VRM and EBL or target range and relative b	target acquisition ARP, TTM data functions to establish the earing.		
3.	Determine if the target is it the CG boat by monitoring	n a meeting situation or would be passing ahead or astern of g the range and relative bearing.		
4.	Recommend course altera	tion, if necessary, to avoid the other boat.		
5. State the meaning of "Constant Bearing, Decreasing Range."				
Ins	Instructor Date			
TA	SK BCM-06-12-TYPE:	Operate the VHF-FM Direction Finder and Steer on a Signature	gnal	
Ref	erence	a. Manufacturer's Operating Manual		
Con	nditions	Task should be performed at any time, while underway, onboard the unit's boats. Task will require the use of another radio transceiver at a known location. Trainee must accomplish task without prompting or use of a reference.		
Sta	ndards	In response to the instructor, the trainee must demonstrate the Course should be steered within 5° of the charted LOP.	he use of the FM d	irection finder.
		Performance Criteria	Completed (Initials)	Boat Type
Identify direction finder and speakers.				
2. Identify off/on switch and turn direction finder on.				
3. Identify front panel indicator and controls.				



Performance Criteria		Completed (Initials)	Boat Type		
4.	Identify volume control ar	nd adjust.			
5.	Identify squelch control ar	nd adjust to just beyond the point where static disappears.			
6.	Establish communications	with another unit using appropriate working frequency.			
7.	Press the CH key.				
8. Enter the appropriate channel using the numerical keypad, then press ENT.					
9. State the direction of the signal.					
Instructor Comments			Date		
TASK BCM-06-13-TYPE: Obtain a Fix Using GPS/DGPS					
References		 a. Boat Crew Seamanship Manual, COMDTINST M16114.5 (series) b. GPS Operator's Handbook c. The American Practical Navigator 			
Conditions		Task should be performed at any time, onboard the unit's boats. Trainee must accomplish task without prompting or use of a reference.			
Standards In response to the instructor, the trainee must correctly demonstrate the use of the GF receiver.		the GPS/DGPS			
	_	Performance Criteria	Completed (Initials)	Boat Type	
1.	1. Energize set and verify set receiving a signal.				



	Performance Criteria	Completed (Initials)	Boat Type
2. Read	and report latitude and longitude position to instructor.		
3. Plot la	atitude and longitude position on chart.		
4. Demo	nstrate using "Sailplan" and "Reverse Sailplan" or Route and Reverse Route (as able).		
InstructorComments		Date	





TASK BCM-06-14-TYPE:	Plot a Position Using LORAN-C TDs			
References	References a. Boat Crew Seamanship Manual, COMDTINST M16114.5 (series) b. The American Practical Navigator			
Conditions	Task should be performed at any time, onboard the unit's boats. Trainee must accomplish task without prompting or use of a reference.			
Standards	Trainee must either demonstrate knowledge or perform each task to the minimum standards included in each performance step.		m standards	
	Performance Criteria	Completed (Initials)	Boat Type	
Describe LORAN-C and i	its purpose.			
2. Explain Time Difference				
3. Plot 3 loran positions by converting TD to Lat/Long using SINS or capable GPS.				
Instructor Date				
Comments				



TASK BCM-06-15-TYP	Operate the Electronic Charting System				
Reference	a. Electronic Charting System Operation Manual				
Conditions	Task should be performed at any time, at facilities available	e to the unit.			
Standards (i)	Trainee must either demonstrate knowledge or perform each included in each performance step.	Trainee must either demonstrate knowledge or perform each task to the minimum standards			
	Performance Criteria	Completed (Initials)	Boat Type		
Describe the purpose of electronic charting.					
2. State the specific features of the electronic charting system.					
3. Describe the information provided in the cursor data box.					
4. Describe the basic pu					
5. Perform the basic procedures for changing the chart scale and displaying information about objects.					
6. Complete procedure for using quick routes.					
Instructor		Date			
Comments					



Section G. Mission-Oriented Operations

Introduction

The following are objectives of this section:

Demonstrate actions to take during a man overboard emergency.

Demonstrate procedures to signal an emergency.

Demonstrate procedures for helo hoist operation.

Demonstrate procedures for towing astern and alongside.

Demonstrate procedures for dewatering another boat.

Demonstrate procedures to combat a fire onboard own boat or another boat.

In this section

This section contains the following tasks:

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Task Number	Task	See Page
BCM-07-01-TYPE	Participate in a Man Overboard Evolution as a Pointer	2-59
BCM-07-02-TYPE	Participate in a Man Overboard Evolution as a Recovery/Pickup Person	2-60
BCM-07-03-ANY	Participate in a Man Overboard Evolution as a Surface Swimmer	2-61
BCM-07-04-ANY	Stokes Litter	2-62
BCM-07-05-TYPE	Recover a Person-in-the-Water with the Stokes Litter	2-62
BCM-07-06-ANY	Helicopter Operations	2-63
BCM-07-07-TYPE	Conduct Helo-Ops	2-63
BCM-07-08-ANY	Fire the MK-127A1 Parachute Illumination Signal	2-64
BCM-07-09-ANY	Bend a Heaving Line to a Bridle and Pass the Heaving Line to Another Boat	2-65
BCM-07-10-TYPE	Pass a Towline to Another Boat	2-65
BCM-07-11-ANY	Connect a Towline to a Trailer Eyebolt Using a Shackle or Skiff Hook	2-66
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BCM-07-16-ANY	Identify the Different Classes of Fires, State the Fuel Sources, and State the Extinguishing Agents for Each Class of Fire	2-71
BCM-07-17-TYPE	Locate and Identify the Firefighting Equipment Carried Onboard the Boat	2-71



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Task Number	Task	See Page
BCM-07-18-ANY	Demonstrate Knowledge of the Operation of a CO2 Fire Extinguisher	2-72
BCM-07-19-ANY	Demonstrate Knowledge of the Operation of a Dry Chemical Fire Extinguisher	2-73
BCM-07-20-TYPE	Assemble Equipment for the Boat's Main Firefighting System	2-73
BCM-07-21-TYPE	Engage the Boat's Main Fire Pump	2-74
BCM-07-22-TYPE	Operate a Vari-Nozzle	2-75
BCM-07-23-TYPE	Demonstrate Knowledge of the Procedures to Combat a Fire in the Engine Space	2-76

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TASK BCM-07-01-TYPE: Participate in a Man Overboard Evolution as a Pointer

Reference

a. Boat Crew Seamanship Manual, COMDTINST M16114.5 (series)

Conditions

Task should be performed during the day and at night, while underway onboard the unit's boats. Where possible, this task should be performed with an actual person in the water. When not possible due to weather conditions or water temperature, Training boat crews for Person in the Water Recovery requires the use of a lifelike dummy (OSCAR). The recommended OSCAR is a stuffed and weighted (approximately 180 lbs dry) Anti-Exposure Coverall secured at the neck and feet. Trainee must accomplish task without prompting or use of a reference.

Standards

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

	Performance Criteria	Completed (Initials)	Boat Type
1. Kee	p Person in the Water (PIW) in sight continuously and sound alarm.		
2. Proc	ceed immediately to assigned position.		
3. Kee	p Coxswain continuously informed of PIW position both vocally and by pointing.		
4. Upo	on command, move to assigned position, and assist with pickup of PIW.		
Instructor Date			

Instructor	Date	
Comments	-	



NASBLA

	Chapter 2 – Boat Crew Member Qu	alification Task
TASK BCM-07-02-TYPE:	Participate in a Man Overboard Evolution as a Recovery/Pickup Person	

Reference

Boat Crew Seamanship Manual, COMDTINST M16114.5 (series)

Conditions

Task should be performed at any time, onboard the unit's boats. Where possible, this task should be performed with an actual person in the water. When not possible due to weather conditions or water temperature, Training boat crews for Person in the Water Recovery requires the use of a lifelike dummy (OSCAR). The recommended OSCAR is a stuffed and weighted (approximately 180 lbs dry) Anti-Exposure Coverall secured at the neck and feet. Trainee must accomplish task without prompting or use of a reference.

Standards



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

	Performance Criteria	Completed (Initials)	Boat Type	
1.	Proceed immediately to assigned position (should be lowest point of freeboard away from screws).			
2.	Prepare a rescue heaving line, if PIW is conscious.			
3.	On command, throw a rescue heaving line to PIW, if PIW is conscious.			
4.	Pull PIW alongside the boat, if PIW is conscious.			
5.	Pull the PIW aboard using two persons.			
Ins	Instructor Date			
Cor	nments			



TASK BCM-07-03-ANY: Participate in a Man Overboard Evolution as a Surface Swimmer			
References	a. Boat Crew Seamanship Manual, COMDTINST M16114.5 (series)		
	b. Rescue and Survival Systems Manual, COMDTINST M10470.10 (series)		
	c. U.S. Coast Guard Addendum to the United States National Search and Rescue Supplement (NSS) to the International Aeronautical and Maritime Search and Rescue Manual, COMDTINST M16130.2 (series)		
Conditions	Where possible, this task should be performed with an actual person in the water. When not possible due to weather conditions or water temperature, Training boat crews for Person in the Water Recovery requires the use of a lifelike dummy (OSCAR). The recommended OSCAR is a stuffed and weighted (approximately 180 lbs dry) Anti-Exposure secured at the neck and fee In response to the instructor, the trainee must perform the task steps without hesitation. Reviet the policy outlined in references (b) and (c).		
Standards (2)			
NOTE &	The intent of this task is to ensure crew member can remove another person from Task may need to be modified, depending upon equipment carried as part of because of the control of the co		
	Performance Criteria	Completed (Initials)	
1. State the surface swimmer	policy as outlined in the above references.		
2. Don necessary rescue equip	oment/PPE.		
3. On command, enter the wa	ter feet first.		
4. Hold PIW in cross shoulder	r position, while pulled back to boat by tender.		
5. Place PIW in stokes litter (only if person is seriously injured and seas are calm).		
6. Assist while PIW hauled or	iboard.		
Instructor Comments	Date		



TASK BCM-07-04-ANY:	Stokes Litter		
Reference	a. Rescue and Survival Systems Manual, COMDTINST M	[10470.10 (series)	
Conditions	Task should be performed at any time at facilities available to the unit.		
Standards	Trainee must either demonstrate knowledge or perform each included in each performance step.	task to the minimum	m standards
	Performance Criteria		Completed (Initials)
Review stokes litter policy COMDTINST M10470.10	and guidelines provided in the <i>Rescue and Survival Systems M</i> (series).	'anual,	
2. State what type of stokes	itter is authorized for use.		
3. State procedures necessary	y for securing a patient in the litter.		
4. State flotation kit requirer	nents.		
Instructor Comments		Date	
TASK BCM-07-05-TYPE: References	Recover a Person-in-the-Water with the Stokes Litter a. Boat Crew Seamanship Manual, COMDTINST M1611 b. Rescue and Survival Systems Manual, COMDTINST M		
Conditions	Task should be performed at any time, onboard the unit's boats. Where possible, this task should be performed with an actual person in the water. When not possible due to weather conditions or water temperature, Training boat crews for Person in the Water Recovery requires the use of a lifelike dummy (OSCAR). The recommended OSCAR is a stuffed and weighted (approximately 180 lbs dry) Anti-Exposure Coverall secured at the neck and feet. Trainee must accomplish task without prompting or use of a reference.		
Standards	Standards In response to the instructor, the trainee must perform the task steps without hesitation. Revenue the policy outlined in the <i>Boat Crew Seamanship Manual</i> , COMDTINST M16114.5 (series and the <i>Rescue and Survival Systems Manual</i> , COMDTINST M10470.10 (series).		14.5 (series)
NOTE &	The intent of this task is to ensure crew member can remove Task may need to be modified, depending upon equipment of	•	
	Performance Criteria	Completed (Initials)	Boat Type
	nanila tending lines, and patient securing straps.		
2. Place stokes litter in water	and tend with assistance of another crew member.		



	Performance Criteria	Completed (Initials)	Boat Type	
3. Place patient or Oscar in li	tter and attach all straps in correct order.			
4. Assist while patient is haul	led onboard (head first).			
5. Check the patient to assess	his/her physical condition and give first aid as needed.			
6. Assist in carrying stokes li	tter with patient from the boat to the shore.		<u> </u>	
Instructor		Date		
Comments				
<u></u>				
TASK BCM-07-06-ANY:	Helicopter Operations			
Reference	a. Boat Crew Seamanship Manual, COMDTINST M16	114.5 (series)		
Conditions	Task should be performed at any time at facilities available	e to the unit.		
Standards	Trainee must either demonstrate knowledge or perform ea included in each performance step.	ch task to the minimu	ım standards	
	Performance Criteria		Completed (Initials)	
1. Review air operations chap	oter of the Boat Crew Seamanship Manual, COMDTINST M	I16114.5 (series).		
2. State delivery and hoisting	methods.			
3. State safety precautions as	sociated with delivery and hoisting.			
Instructor Comments				
Comments				
TASK BCM-07-07-TYPE:	Conduct Helo-Ops			
NOTE &	Task ONLY applies to boats 40 FT and above.			
Reference	a. Boat Crew Seamanship Manual, COMDTINST M16	114.5 (series)		
Conditions Task should be performed onboard the unit's boats during daylight hours, in fair weather				



conditions. All crew members should be wearing gloves, helmets, goggles, PFDs, hearing protection, in addition to appropriate exposure gear and boat crew personnel survival vests. Rescue device and/or line must not become entangled or otherwise attached to the boat at any time. Rescue device must be grounded to the boat before crew members handle it. Trainee must accomplish task without prompting or use of a reference.

NOTE &

If no helicopter training is available, this task may be deferred. Task must be completed at the earliest possible time.

Standards

esponse to the instructor, the trainee should perform the tasks in accordance with the steps

ы	nuai us	listed below.	in the tasks in accordance	with the steps
		Performance Criteria	Completed (Initials)	Boat Type
1.	Secure loose gear before	operations.		
2.	Ground rescue device usi	ng a deadman stick.		
3.	Bring rescue device onto	the boat's deck by hand or by using a tag line.		
4.	Tend rescue device as it is	s lifted from boat and hoisted to helicopter.		
Ins	tructor		Date	
Co	mments			
TA	SK BCM-07-08-ANY:	Fire the MK-127A1 Parachute Illumination Signal		
Re	ference	a. Boat Crew Seamanship Manual, COMDTINST	M16114.5 (series)	
Co	nditions	Task should be performed at night, ashore or underw prompting or use of a reference.	ay. Trainee must accompl	lish task without
Sta	ndards	Trainee must break out, prepare, and launch the MK-	127A1 signal.	
		Performance Criteria		Completed (Initials)
1.	Remove signal from its co	ontainer.		
2.	Hold signal in left hand w	rith red band facing up.		
3.	Withdraw firing cap from	lower end.		
4.	Inspect cork sealing disc	for looseness. If disc is loose, flare should not be fired.		

Point ejection end, opposite the red band, away from body and other people or objects.



	Performance Criteria	Completed (Initials)		
	to primer end until cap is aligned with the lower edge of the red band.			
-	ng end is perpendicular to the deck with the firing cap facing downward.			
8. Fire signal by striking firing	ng cap bottom with the palm of the right hand.			
9. Keep the arm rigid and po	inted straight up.			
Instructor	Date			
Comments				
TASK BCM-07-09-ANY:	Bend a Heaving Line to a Bridle and Pass the Heaving Line to Another Boat	②		
Reference	a. Boat Crew Seamanship Manual, COMDTINST M16114.5 (series)			
Conditions	Task should be performed at any time onboard one of the unit's boats. Heaving should be at least 75 FT long. The target boat must be at least 40 FT away from time of the toss. Trainee must accomplish task without prompting or use of a ref	the boat at the		
Standards	In response to the instructor, the trainee must pass the line to the target boat, in a the steps listed below, on two out of three throws. The heaving line should pass boat, but not hit it.			
	Performance Criteria	Completed (Initials)		
1. Wet heaving line to reliev	e stiffness.			
Bend one heaving line ont with two half hitches, or a	to the bridle eye using a bowline and second onto the throat using a clove hitch snap hook.			
3. Make heaving line into tig	tht coils.			
4. Place two-thirds of coil in	casting hand.			
5. Instruct people on other be	oat to take cover.			
6. On command, throw heav	ing line over the target boat and tend.			
Instructor	Date			
Comments				
TASK BCM-07-10-TYPE: Pass a Towline to Another Boat				
Reference	Reference a. Boat Crew Seamanship Manual, COMDTINST M16114.5 (series)			
Conditions	Conditions Task should be performed at any time, onboard the unit's boats, while taking another boat in tow. Trainee must accomplish task without prompting or use of a reference.			
Standards	In response to the instructor, the trainee must, in accordance with the procedures listed below, perform all line handling related to passing a tow line.			





-				
		Performance Criteria	Completed (Initials)	Boat Type
1.	Using heaving lines, pass towline to the boat to be towed.			
2.	Tand toyuling while paople	a on other heat make attachment		
۷.	rend townine winie people	e on other boat make attachment.		
3.	Place a proper working tu	rn around the towing bitt and pay out the line, as directed.		
4.	On command, secure towl	line to the towing hitt		
7.	on command, secure town	and to the towning ofte.		
5.	On command, break towing	ng bitt down to a working turn, pay towline out.		
6.	6. On command, make up bitt.			
0.	o. On command, make up bld.			
Instructor Date				
Con	mments			
TA	SK BCM-07-11-ANY:	Connect a Towline to a Trailer Eyebolt Using a Shackle of	r Skiff Hook	
Ref	erence	a. Boat Crew Seamanship Manual, COMDTINST M1611	4.5 (series)	
		Task should be performed at any time, onboard any of the ur boat in tow. Trainee must accomplish task without prompting		
Standards		In response to the instructor, the trainee must, in accordance perform all line handling related to connecting a towline to a		
Performance Criteria			Completed (Initials)	
1.	Prepare towing line with s	skiff hook assembly or shackle attached.		
2.	2. Connect towline to eyebolt using skiff hook assembly or shackle, while disabled boat is off either quarter.			
3. Tend towline from towing boat with proper working-turn around the tow bitt.				
4.	4. On command, secure towline to the tow bitt.			
5.	On command, break down the tow bitt to a working turn, and pay out towline.			



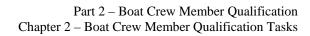
	Performance Criteria		Completed (Initials)		
6. On command, make up tov	v bitt.				
Instructor		Date			
TASK BCM-07-12-TYPE:	Secure an Alongside Tow				
Reference	a. Boat Crew Seamanship Manual, COMDTINST M161	14.5 (series)			
Conditions	Task should be performed at any time, onboard the unit's boats. Trainee must accomplish task without prompting or use of a reference.				
Standards In response to the instructor, the trainee must, without prompting, correctly tend and towline and side lines in accordance with the procedures listed below.			l and secure the		
	Performance Criteria	Completed (Initials)	Boat Type		
1. Rig fenders and set up lines on the side where tow will be secured.					
If using stern towline, upon command, walk towline forward and fake out excess line on deck, out of the way.					
3. If using stern towline, upon	n command, lead tow line forward and use as the bow line.				
4. Secure other lines as directed by the Coxswain.					
5. Explain the purpose of eac	h line (bow, stern, towing strap, back spring).				
Instructor		Date			
Comments					
TASK BCM-07-13-ANY: NOTE &	Prepare the Portable Pump for Operation, Start, and Ob Task DOES NOT apply to cutterboats.	otain Suction			



Conditions Standards		 a. Dewatering Pump Manufacturer's Instructions b. Rescue and Survival Systems Manual, COMDTINST M10470.10 (series) Task should be performed at any time, onboard the unit's boats. Trainee must accomplish task without prompting or use of a reference. In response to the instructor, the trainee must, without error, prepare and start the pump in accordance with the procedures listed below. The pump must take suction in order for this task to be considered successful. 						
							Performance Criteria	Completed (Initials)
					1.	Open and remove pump fro	m pump can.	
2.	. Check oil. Fill if needed.							
3.	Mount and connect fuel tank (if applicable).							
4.	Connect and unroll discharge hose.							
5.	Connect suction hose.							
6.	Place suction hose strainer	in water.						
7.	Prime pump.							
8.	Start pump engine within six pulls.							
9.	Take suction and discharge water from the pump.							
10.	Drain, flush out with freshw	vater, clean up and secure pump.						
Instructor Date		te						
Cor	nments							
	· · · · · · · · · · · · · · · · · · ·							



TASK BCM-07-14-TYPE:	Assist in Passing a Portable Pump Directly to Another Boat			
Reference	a. Boat Crew Seamanship Manual, COMDTINST M16114.5 (series)			
Conditions	Task should be performed at any time, onboard the unit's boats, acting as a member of a two-man team. Trainee must accomplish task without prompting or use of a reference.			
Standards	In response to the instructor, the trainee must demonstrate passing the pump in accordance with the procedures listed below.			
	Performance Criteria	Completed (Initials)	Boat Type	
1. Attach mooring line to pur	mp can handle.			
2. Secure heaving line to mo	oring line using bowline or double becket bend.			
3. Attach mooring line to oth	er handle.			
4. Pass heaving line to other	boat.			
	oring line while people on other boat haul it in (lines should ack in the water around the boats).			
	,	_		
Instructor		Date		
Comments				





TASK BCM-07-15-TYPE: Rig and Operate an Eductor to Obtain Suction				
Reference	a. Boat Crew Seamanship Manual, COMDTINST M16114.5 (series)			
Conditions	Task should be performed at any time, pierside or underway, on boats carrying eductor equipment. Task should be performed using the installed pump onboard the boat. Trainee must accomplish task without prompting or use of a reference.			
Standards	In response to the instructor, the trainee must prepare the eductor and put it into operation in accordance with the procedures listed below. The eductor must take suction in order for this task to be considered successful.			
	Performance Criteria	Completed (Initials)	Boat Type	
Connect eductor supply h	ose to pump outlet using 25 FT length of hose.			
2. Connect 1½-inch supply hose to the eductor.				
3. Connect 2½-inch discharge hose to the eductor.				
4. Submerge eductor in the water to be pumped.				
5. Engage pump engine.				
6. Observe suction and discharge water through the eductor. Ensure discharge flowing overboard.				
7. Secure pump.				
8. Drain, flush out with fresh	n water, clean up and secure pump.			
Instructor		Date		
Comments				

TASK BCM-07-16-ANY:



	Agents for Each Class of Fire			
Reference	a. Boat Crew Seamanship Manual, COMDTINST M16114.5 (series)			
Conditions	Task should be performed at any time ashore or afloat. Trainee must accomplish task without prompting or use of a reference.			
Standards (2)	In response to the instructor, the trainee must, without error state, the answers called for in the steps below.			
	Performance Criteria		Completed (Initials)	
1. State most common fuels for	. State most common fuels for Class A fires, and state the primary extinguishing agent for a Class A fire.			
2. State most common fuels for	or Class B fires, and state the primary extinguishing agent for	a Class B fire.	-	
3. State most common source	for Class C fires, and state the primary extinguishing agent for	or a Class C fire.		
4. State most common fuels for	or Class D fires, and state the primary agents for containing a	Class D fire.	· <u> </u>	
Instructor	nstructor Date			
Comments				
	Locate and Identify the Firefighting Equipment Carried	Onboard the Boat	(2)	
Reference	a. Boat outfit or daily checkoff list for the boat			
Conditions	Task should be performed at any time, onboard the unit's boats. Only those items carried on the boat need to be identified. Trainee must accomplish task without prompting or use of a reference.			
Standards (2)	In response to the instructor, the trainee must identify all of the firefighting equipment carried on the boat, and state the purpose of each piece.			
	Performance Criteria	Completed (Initials)	Boat Type	
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 purpo	se of all fire hoses.			

Identify the Different Classes of Fires, State the Fuel Sources, and State the Extinguishing



	Performance Criteria	Completed (Initials)	Boat Type
4. Identify and state the pur	pose and capabilities of the nozzle.		
5. Identify and state the pur	pose of all Y or tri-gates and hose fittings.		
6. Identify and state the pur	pose of all spanner wrenches.		
7. Identify and state the pur	pose of the fixed extinguishing system.		
8. Identify and state the pur	pose of all CO ₂ fire extinguishers.		
9. Identify and state the pur	pose of all dry chemical extinguishers.		
Instructor		Date	
Comments			
TASK BCM-07-18-ANY:	Demonstrate Knowledge of the Operation of a CO ₂ F	ire Extinguisher)
Reference	a. Boat Crew Seamanship Manual, COMDTINST M	16114.5 (series)	
Conditions	Conditions Task should be performed at any time, ashore or afloat. Trainee must accomplish task without prompting or use of a reference.		sh task without
Standards	In response to the instructor, the trainee must demonstrate accordance with the guidelines listed below.	ate the use of a CO ₂ fire	extinguisher in
			Completed

	Performance Criteria	Completed (Initials)
1.	Carry extinguisher in upright position.	
2.	Identify the locking pin and explain its purpose, and remove from valve (simulate removing pin).	
3.	Ground cylinder by placing it on deck.	
4.	Point horn at target and explain how to activate the extinguisher.	
5.	Direct CO ₂ at the base of the fire (simulate).	



Instructor		Date	
Comments			
TASK BCM-07-19-ANY: Demonstrate Knowledge of the Operation of a Dry Chemical Fire Extinguishe		ner 🕝	
Reference	a. Boat Crew Seamanship Manual, COMDTINST M161	14.5 (series)	
Conditions	Task should be performed at any time, ashore or afloat. Trainee must accomplish task without prompting or use of a reference.		
Standards In response to the instructor, the trainee must demonstrate the use of a dry chemical extinguisher in accordance with the guidelines listed below.		ical fire	
	Performance Criteria		Completed (Initials)
1. Check fill cap for tightness	SS.		
2. Identify and explain remo	val of the locking pin from the cutter assembly.		
3. Explain how puncture lev	er is pushed down, and why this is done.		
4. Approach fire from the w	indward side.		
5. Remain at least 8 FT from	the fire.		
6. Point extinguisher at base	of fire, explain discharge procedure.		
Instructor		Date	
Comments			
TASK BCM-07-20-TYPE:	Assemble Equipment for the Boat's Main Firefighting Sy Portable Pump with Vari Nozzle optional Hose)	ystem (Installed Syst	tem or
Reference	a. Boat Crew Seamanship Manual, COMDTINST M161	14.5 (series)	
Conditions	Task should be performed at any time, onboard the unit's boats, acting as a member of a team Only those steps applicable to the boat type need to be accomplished. Trainee must accomplitate task without prompting or use of a reference.		
In response to the instructor, the trainee must correctly connect those pieces of equipment necessary to use the boat's firefighting equipment for fighting a fire. Demonstration shoul completed within 15 minutes.			
	Performance Criteria	Completed (Initials)	Boat Type
Connect Y or tri-gate to the state of t	ne firemain (as applicable).		



	Performance Criteria	Completed (Initials)	Boat Type
2. Connect 1½-inch hose to Y	or tri-gate and attach vari-nozzle.		
3. Place correct gates of the Y	or tri-gate in open position.		
4. Charge fire hose.			
Instructor		Date	
TASK BCM-07-21-TYPE:	Engage the Boat's Main Fire Pump		
Reference	a. Specific Boat Type Operator's Handbook, COMDTINST M16114 (series))
Conditions	Task should be performed at any time, onboard the unit's those boats with an installed firefighting system, or a semi firefighting. Only those steps applicable to the boat type saccomplish task without prompting or use of a reference.	-attached portable pr	imp used for
Standards	In response to the instructor, the trainee must correctly der pump in accordance with the guidelines listed below. Tas minutes.		
	Performance Criteria	Completed (Initials)	Boat Type
1. Place engine in neutral.			
2. Open firemain sea suction	valve.		
3. Energize fire pump.			
4. Break out and rig portable	pump.		



	Performance Criteria	Completed (Initials)	Boat Type
5. Connect all gates and hoses.			
6. Open discharge valve.			
7. Open air vent valve.			
8. Start pump engine (if sep	arate).		
9. Engage and charge system	n.		
Instructor Date			
Comments			
TASK BCM-07-22-TYPE:	Operate a Vari-Nozzle		
Reference	a. Boat Crew Seamanship Manual, COMDTINST M16	114.5 (series)	
Conditions	Task should be performed at any time, onboard the unit's be water discharged. Trainee must accomplish task without pro-		
Standards	In response to the instructor, the trainee must demonstrate accordance with the guidelines listed below. Task should		
	Performance Criteria	Completed (Initials)	Boat Type
1. Connect nozzle to 1½-inc	h hose.		
2. Man nozzle and open nozzle.			
3. Demonstrate wide-angle	fog.		



Performance Criteria		Boat Type	
4. Demonstrate narrow angle	fog (power cone).		
5. Demonstrate straight stream	m.		
6. Demonstrate flush feature.			
Instructor		Date	
Comments			
TASK BCM-07-23-TYPE: Demonstrate Knowledge of the Procedures to Combat a Fire in the Engine Space or Outboard Engine.			
Reference	a. Specific Boat Type Operator's Handbook, COMDTIN	IST M16114 (series	s)
Conditions	Task should be performed at any time, acting as a member Trainee must accomplish task without prompting or use of		the unit's boats.
Standards	Standards In response to the instructor, the trainee must demonstrate the use of the main fire extinguish system and the procedures for fighting engine space fires in accordance with the guidelines listed below. The demonstration must be accomplished within five minutes.		
	Performance Criteria	Completed (Initials)	Boat Type
1. Sound alarm to other crew members by shouting: "FIRE, FIRE, FIRE."			
2. Secure engines (upon command).			
3. Secure air supply to engine space (upon command, if possible).			
4. Simulate and explain activating fixed firefighting system, if available.			



Performance Criteria		Completed (Initials)	Boat Type
5. Aim fire extinguisher, if us	sed, at base of the fire, simulating fighting the fire.		
Instructor		Date	
Comments			
TASK BCM-07-24-TYPE: Demonstrate the Appropriate Response to the Basic Engineering Casualty Control Exercises (BECCE)			Control
References	a. Boat Crew Seamanship Manual, COMDTINST M16114.5 (series)b. Manufacturer's Operator's Manual and Technical Publication		
Conditions	Task should be performed at any time, onboard the unit's boats. Trainee must accomplish task without prompting or use of a reference.		
Standards ②	In response to the instructor, the trainee must, without error, demonstrate the steps taken for each of the BECCEs listed, as stated in the above reference.		

~			
	Performance Criteria	Completed (Initials)	Boat Type
1.	Fire in the engine room or outboard engine.		
2.	Loss of steering (cable/hydraulic).		
3.	Loss of steering (jammed rudder).		
4.	Accidental grounding.		
5.	Collision with submerged object.		
6.	Reduction gear failure.		



	Performance Criteria	Completed (Initials)	Boat Type
7. N	Main engine high water temperature.		
8. L	coss of main engine lube oil pressure.		
9. L	oss of fuel oil pressure.		
10. L	loss of control of engine RPM.		
	General starting difficulties, including engine not starting and emergency starting rocedures.		
12. C	Cooling system casualties.		
13. P	Propeller damage and excessive cavitation.		
14. Iı	mmersed outboard.		
15. L	oss of electrical power.		
	Instructor Date Comments		
Comi	uents		



Study Guide Chapter 3 Boat Crew Member Trainee Study Guide

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/E-Training system.

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

NOTE &

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 AssignmentsA	2-80
B.	Reading AssignmentsB	2-82
C.	Reading AssignmentsC	2-90
D.	Reading AssignmentsD	2-94
E.	Reading Assignments	2-100
F.	Reading Assignments	2-102
G.	Reading Assignments	2-108



Section A. Reading Assignments

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-ANY	Crew Fatigue	Boat Crew Seamanship Manual, COMDTINST M16114.5 (series)	2-81
BCM-01-02-ANY	Motion Sickness	Boat Crew Seamanship Manual, COMDTINST M16114.5 (series)	2-81
BCM-01-03-ANY	Team Coordination Training (TCT)	None assigned	



TASK BCM-01-01-ANY: **Crew Fatigue** Mental and physical fatigue is among the during rough weather operations. The primary symptoms of fatigue are:

b. c. d. e. f. 3. Some preventive measures are: b. d. e. f. Some other environmental conditions that also promote fatigue are: a. b. c. d. TASK BCM-01-02-ANY: **Motion Sickness**

1.	Motion sickness occurs when there is an imbalance betweenimages and the portion of thewhich senses motion.
2.	Reading chart work, or other tasks that require close attention, willmotion sickness.
3.	Anti-motion Sickness Medications, COMDTINST 6710.15D, restricts medication use. Specifically, it must not be given under the following circumstances:
	a.
	b.
	c.



Section B. Reading Assignments

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-02-01-ANY	Personal Physical Fitness and Vision	None Assigned	
BCM-02-02-ANY	Crew First-Aid Responsibility	Boat Crew Seamanship Manual, COMDTINST M16114.5 (series)	2-84
BCM-02-03-ANY	Demonstrate Adult, Child and Infant CPR	Boat Crew Seamanship Manual, COMDTINST M16114.5 (series)	2-84
BCM-02-04-ANY	Don the Type III PFD	Rescue and Survival Systems Manual, COMDTINST M10470.10 (series)	2-85
BCM-02-05-ANY	Don Anti-Exposure Coveralls	Rescue and Survival Systems Manual, COMDTINST M10470.10 (series)	2-85
BCM-02-06-ANY	Don the Boat Crew Dry Suit	Rescue and Survival Systems Manual, COMDTINST M10470.10 (series)	2-85
BCM-02-07-ANY	Identify Boat Crew Survival Vest Equipment	Boat Crew Seamanship Manual, COMDTINST M16114.5 (series)	2-86
		Rescue and Survival Manual, COMDTINST M10470.10 (series)	
BCM-02-08-ANY	Use the Emergency Signaling Mirror	None assigned	
BCM-02-09-ANY	Demonstrate the Use of the MK-124 Smoke and Illumination Signal	None assigned	
BCM-02-10-ANY	Demonstrate the Use of the MK-79 Illumination Signal Kit	None assigned	
BCM-02-11-ANY	Operate the Distress Signal Light	None assigned	
BCM-02-12-ANY	Operate the Personal Locator Beacon	None assigned	
BCM-02-13-ANY	Don the Boat Crew Survival Vest	Rescue and Survival Systems Manual, COMDTINST M10470.10 (series)	2-87
BCM-02-14-ANY	Don the Inflatable PFD	Rescue and Survival Systems Manual, COMDTINST M10470.10 (series)	2-87
BCM-02-15-TYPE	Explain the Manual Deployment and Boarding Procedures for the Rescue and Survival Raft	Boat Crew Seamanship Manual, COMDTINST M16114.5 (series) Rescue and Survival Manual, COMDTINST M10470.10 (series)	2-87
BCM-02-16-TYPE	List Survival Procedures in Event of Boat Capsize	Boat Crew Seamanship Manual, COMDTINST M16114.5 (series)	2-88

Part 2 - Boat Crew Member Qualification Chapter 3 - Boat Crew Member Trainee Study Guide



Task Number	Task Title	Reading Assignment	See Page
BCM-02-17-ANY	Open Water Survival Skills	Boat Crew Seamanship Manual, COMDTINST M16114.5 (series)	2-88
		Rescue and Survival Systems Manual, COMDTINST M10470.10 (series)	
		Team Coordination Training, COMDTINST 1541.1	
BCM-02-18-ANY	Perform Water Survival Exercise	Boat Crew Seamanship Manual, COMDTINST M16114.5 (series)	2-89
		Rescue and Survival Systems Manual, COMDTINST M10470.10 (series)	



TASK BCM-02-02-ANY: Crew First-Aid Responsibility

- 1. What are dressings and bandages used for?
- 2. What is the first step in caring for bleeding wounds?
- 3. What should you do if you think a victim has serious internal bleeding?
- 4. What should you do for someone who is suffering from a heat-related illness?
- 5. What should you do if you find someone with a piece of glass sticking out of their arm?
- 6. Why should you cover burns with a clean or sterile dressing?

TASK BCM-02-03-ANY: Demonstrate Adult, Child and Infant CPR

- 1. In a life-threatening situation, what is the most important thing you can do to help an adult?
- 2. What is a signal of breathing difficulty?
- 3. What should you do to determine whether a victim requires rescue breathing?
- 4. In a life-threatening situation, what is the most important thing you can do to help a child?
- 5. What is a signal of breathing difficulty?
- 6. In a life-threatening situation, what is the most important thing you can do to help an infant?
- 7. What is a signal of breathing difficulty?
- 8. What should you do to determine whether or not a victim requires rescue breathing?
- 9. What should you do for a conscious adult who is choking and cannot cough?
- 10. When should you stop CPR?
- 11. One cycle of CPR for an adult includes ____ compressions and ____ breath(s).
- 12. Where on an adult victim should you feel for a pulse?
- 13. Where do you check for a pulse on an infant?
- 14. How often should you give rescue breaths to a child who is not breathing but does have a pulse?
- 15. One cycle of CPR for a child includes ____ compressions and ____ breath(s).



TA	SK BCM-02-04-ANY: Don the Type III PFD
1.	The Type III PFD is normally worn aboard boats when is required.
2.	True or False. The Type III PFD will turn a crew member face up if he/she falls overboard and is rendered unconscious.
3.	The Type III PFD has a tendency to on the wearer in the water.
TA	SK BCM-02-05-ANY: Don Anti-Exposure Coveralls
1.	True or False. Wearing a Type I or III PFD over an anti-exposure coverall may be dangerous in certain situations.
2.	The anti-exposure coveralls have straps located at the,, and which should be tightened before entering the water.
3.	The anti-exposure coveralls is ideal for cold weather operations with cockpit boats.
TA	SK BCM-02-06-ANY: Don the Boat Crew Dry Suit
1.	The dry suit shall be worn in cockpit boats 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.	To afford the maximum protection from hypothermia, the dry suit must be worn with the
4.	True or False. The dry suit must never be worn over regular clothing.
5.	A must be worn over a dry suit at all times.



TASK BCM-02-07-ANY: Identify Boat Crew Survival Vest Equipment

1.	The boat crew survival vest was designed to aid personnel to in hazardous situations.
2.	The survival knife is used to yourself if you become entangled.
3.	The emergency signaling mirror is used to attract the attention of passing, or boats.
4.	Reflected light from the emergency signal mirror can be seen at a 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.
7.	The night end of the MK-124 smoke and illumination signal produces a
8.	The day end of the signal produces smoke.
9.	Two prominent bands around the circumference identify the end.
10.	After the seal has been broken, the signal is activated by a pull on the
11.	The signal should be held downwind and overhead at a° angle flame.
12.	The signal in the MK-79 kit can be fired to an altitude of 250 FT to FT.
13.	The second step in preparing the signal for launching is to move the screw into the safety slot.
14.	The protective tab should be bent from the signal.
15.	The signal should be mated to projector and rotated until the signal is seated.
16.	When firing, the arm should be extended
17.	Spent signals or misfires should be overboard.
18.	The Distress Signal Light emits a high visual distress signal visible for great distances.
19.	The light is intended to omit approximately flashes per minute.
20.	If the light, with a new battery, does not operate within limits, the light from service.



IA	SK DCM-02-13-AN1. Don the Boat Crew Stil vival Vest
1.	The Type III PFD is normally worn when the water temperature is greater than ° F.
2.	The Type III PFD has a minimum of lbs of buoyancy.
3.	The flotation characteristics of the anti-exposure coveralls is similar to those of a TypePFD.
4.	The anti-exposure coveralls have an orally inflatedfor better flotation angle.
5.	True or False. The anti-exposure coveralls are the same as a dry suit.
6.	True or False. The Boat Crew Survival Vest should only be worn under a PFD.
TA	SK BCM-02-14-ANY: Don the Inflatable PFD
1.	The inflatable type PFD uses as the inflating agent.
2.	True or False. The inflatable type PFD should be inflated before entering the water.
3.	The inflatable type PFD will probably have a and attached to it.
4.	To maintain the buoyancy of the inflatable PFD, an tube is provided.
TA	SK BCM-02-15-TYPE: Explain the Manual Deployment and Boarding Procedures for the Rescue and Survival Raft
1.	The raft may be inflated either or automatically.
2.	The raft may be inflated manually by completely pulling the line from the raft container.
3.	The raft should be considered as a means of persons stranded in areas where a boat cannot go.
4.	If practical, the raft should be directly from the boat - avoid entering the
5.	After boarding the raft, you should try to remain in the same general area as the
6.	Food and water should be



TASK BCM-02-16-TYPE: List Survival Procedures in Event of Boat Capsize

1.	While capsizing, personnel should something sturdy.	
2.	If trapped in or under a boat, personnel should seek out an	_ near the
3.	Before attempting to escape, an inventory should be made of alltaken along.	that might be
4.	Because air will eventually leak or run out, every effort should be made to	<u>_</u> .
5.	Sometimes it is necessary to your PFD in order to exit. If necessary, it s a so it can be after exiting.	hould be attached to
6.	If the engines are still running, you should the stern.	
7.	When trapped in an open cockpit, you should exit by swimming the gunwales an alongside the boat.	d
8.	If trapped in an enclosed cabin, you must remember that all exits are capsizes.	when the boat
9.	If line is available, the swimmer should exit first taking an end of the line with him/her.	
10.	If no line is available, the swimmer should go out first, followed by the swimmers, and lastly by a swimmer.	
11.	When free, the first swimmer out should contact the people inside by	
TAS	SK BCM-02-17-ANY: Open Water Survival Skills	
1.	State the four types of hypothermia clothing used by the Coast Guard.	
	a.	
	b.	
	c. d.	
2.	clothing robs the body of heat by breaking down the thermal protection of insulated clothing.	
3.	If a dry suit is worn, Boat Crew Members must wear a at all times.	
4.	The anti-exposure coveralls are TypePFD.	
5.	True or False. If possible, board the life raft from the sinking boat to avoid entering the water.	
6.	The length of time a person can stay alive in cold water depends on three factors. What are these three factors are the second of the cold water depends on three factors.	actors?
7.	True or False. It is best to climb on an overturned boat hull from the windward side.	
8.	If a Coast Guard boat is greater thanFT, it will normally carry a survival raft.	
9.	If trapped under an inverted boat, seek out an near the top.	
10.	True or False. When swimming out from under an inverted boat, a PFD should be worn at all times.	



TASK BCM-02-18-ANY: **Perform Water Survival Exercise** 1. The bright light spot on the signal mirror is used to _____ the mirror. Where can directions for use of the signal mirror be easily found? The use of a whistle is especially helpful to rescuers during periods of ______ A signal whistle's audible sound may be heard up to ______ yards. The MK-124 day/night pyrotechnic device produces_____ colored smoke for daytime conditions and _____ colored flare as a night signal. Each end of the MK-124 will burn for about _____ seconds. In the dark, the night end of the MK-124 is identifiable by _____ on the night end. Each MK-79 signal kit contains _____ cartridge type aerial flares and _____ pencil type projector. 9. The aerial flares in the MK-79 signal kit can attain an altitude of ______ to _____ FT and remain illuminated for about ____seconds. 10. The distress signal light is designed to emit about _____ flashes per minute and is capable of flashing ____ hours if used continuously. 11. Define the acronym HELP in regards to water survival.

12. True or False. Swimming in cold water will warm you up and increase your chances for survival.



Section C. Reading Assignments

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-ANY	State Common Boat Nomenclature and Terminology	Boat Crew Seamanship Manual, COMDTINST M16114.5 (series)	2-91
BCM-03-02-TYPE	Locate and Identify the Purpose of the Equipment Aboard the Boat	Boat Crew Seamanship Manual, COMDTINST M16114.5 (series)	2-91
BCM-03-03-TYPE	Boat Characteristics – Boat Construction	Boat Crew Seamanship Manual, COMDTINST M16114.5 (series)	2-92
BCM-03-04-TYPE	Boat Characteristics – Watertight Integrity	Boat Crew Seamanship Manual, COMDTINST M16114.5 (series)	2-92
BCM-03-05-TYPE	Stability	Boat Crew Seamanship Manual, COMDTINST M16114.5 (series)	2-93
BCM-03-06-ANY	Identify the Different Parts of a Line and Hitches Used in Line Handling	Boat Crew Seamanship Manual, COMDTINST M16114.5 (series)	2-93
BCM-03-07-ANY	Tie Various Knots, Hitches and Bends	Boat Crew Seamanship Manual, COMDTINST M16114.5 (series)	2-93
BCM-03-08-ANY	Secure Lines to Cleats, Bitts and Posts	Boat Crew Seamanship Manual, COMDTINST M16114.5 (series)	2-93

When securing chafing gear to a line, you should use ____

5. Ring _____ are used during man overboard emergencies.



TASK BCM-03-01-ANY: **State Common Boat Nomenclature and Terminology** 1. The front end of the boat is the _ When proceeding toward the bow, you are going ______. 2. The right side of the bow is the ______ bow. 3. The central or middle area of the boat is ______. The left center side of the boat is the _____ 5. The rear of the boat is the ___ 6. The left rear section of the boat is the port _____ 7. 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-TYPE: Locate and Identify the Purpose of the Equipment Aboard the Boat 1. A ______ is used to allow the anchor line to spin freely. _____ are used for passing the towline when maneuverability 75 FT and 100 FT is restricted. is used to attach a towline to a trailer eyebolt on boats.



TASK BCM-03-03-TYPE: 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 the 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. Many boats are this type.
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.	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.	If decks are seagoing floors, then hatches are seagoing
14.	are small openings.
15.	Watertight doors are designed to resist as much as the through which they provide access.
TAS	SK BCM-03-04-TYPE: Boat Characteristics – Watertight Integrity
1.	doors are designed to resist as much pressure as the bulkheads through which they provide
	access.
2.	If are seagoing floors, then are seagoing doors.
3.	Watertight closures must have clean, bright, unpainted, smooth for gaskets to press against.
4.	Scuttles must be secured for at all times except when they are open for inspection, cleaning, or painting.
5.	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

placed on the same cleat.



TASK BCM-03-05-TYPE: Stability 1. The tendency to remain upright is its (the boat's) and _____ are the two primary forces acting upon a floating boat that affect stability. is the point at which the weight of the boat acts vertically downwards. The ____ 3. The _____is the upward force of water displaced by the hull. 4. 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 A boat has two principal types of stability: _____ and ____. The two principal forces that affect stability are _____ and ____ forces. General boat design features that influence stability include: b. TASK BCM-03-06-ANY: 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 ______. 2. The long, unused or belayed end is called the _____ An overhang loop is made by crossing the ______ over the standing part. _____ formed by turning the line back on itself. 4. A bight is a ___ 5. A ______ is a single turn and a _____ is two complete turns around an object. TASK BCM-03-07-ANY: Tie Various Knots, Hitches and Bends The advantage of a bowline is that it does not _____ The best all-around hitch for securing a line to a ring, spar, or other round or near round object is the Timber hitches are used to secure a line to logs, planks, or other ____ 4. ____ are used to lengthen one line by bending one to another. TASK BCM-03-08-ANY: Secure Lines to Cleats, Bitts and Posts Deck fittings permit easy handling of lines and reduce _____ and friction on lines. When securing a line to a cleat, bitt, or post, you should first take a ______ around the deck fitting. You should finish securing the line by forming several figure _____ and securing them with a half _____ over each horn.

To facilitate speed and safety, the dipping the ______ method should be used when two mooring lines have to be



Section D. Reading Assignments

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-04-01-ANY	Rig Fenders to Side of the Boat	Boat Crew Seamanship Manual, COMDTINST M16114.5 (series)	2-95
BCM-04-02-TYPE	Make Fast a Boat to a Pier	Boat Crew Seamanship Manual, COMDTINST M16114.5 (series) Chapman Piloting, 61 st edition, Pages 200-201	2-95
BCM-04-03-TYPE	Assist in Anchoring the Boat	Boat Crew Seamanship Manual, COMDTINST M16114.5 (series)	2-95
BCM-04-04-TYPE	Assist in Weighing the Boat's Anchor	Boat Crew Seamanship Manual, COMDTINST M16114.5 (series)	2-95
BCM-04-05-ANY	Identify the Common Navigation Lights Displayed by Ships and Boats	 Chapman Piloting, 61st Edition Navigation Rules International-Inland, COMDTINST M16672.2 (series) 	2-96
BCM-04-06-ANY	Identify the Common Sound Signals Used by Ships and Boats	 Chapman Piloting, 61st Edition Navigation Rules International-Inland, COMDTINST M16672.2 (series) 	2-96
BCM-04-07-ANY	Identify and Describe Accepted Maritime Distress Signals	 Boat Crew Seamanship Manual, COMDTINST M16114.5 (series) Navigation Rules International-Inland, COMDTINST M16672.2 (series) 	2-97
BCM-04-08-ANY	Stand a Lookout Watch	 Boat Crew Seamanship Manual, COMDTINST M16114.5 (series) Navigation Rules International-Inland, COMDTINST M16672.2 (series) 	2-97
BCM-04-09-ANY	Act as a Helmsman and Steer a Compass Course	Boat Crew Seamanship Manual, COMDTINST M16114.5 (series)	2-97
BCM-04-10-TYPE	Get the Boat Away From a Pier	Boat Crew Seamanship Manual, COMDTINST M16114.5 (series) Chapman Piloting, 61 st Edition, Page 207	2-98
BCM-04-11-TYPE	Moor the Boat	Boat Crew Seamanship Manual, COMDTINST M16114.5 (series)	2-98
BCM-04-12-TYPE	Boat Handling	Boat Crew Seamanship Manual, COMDTINST M16114.5 (series)	2-99



TASK BCM-04-01-ANY: 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 _____. 4. Fenders should be secured to a stanchion, ______, bitt or cleat. TASK BCM-04-02-TYPE: Make Fast a Boat to a Pier 1. All fenders should be rigged and ______ should be broken out and ready before reaching the dock. The _____ of the mooring line should be secured to the dock before the bitter end is fixed to the boat cleat. 3. Normally the after _____ spring line is secured first. The order in which the lines are attached depends on the ______ evaluation of the situation. TASK BCM-04-03-TYPE: Assist in Anchoring the Boat 1. Most Coast Guard boats use a ______ type anchor. of the anchor are the parts that dig into the bottom to provide holding power. The anchor line, or chafing chain, is secured to the is used to attach the chain so that the anchor line can spin freely. 4. A 5. Never stand in the ______ of an anchor line. The anchor line should be tended directly from the ______locker if possible. 7. The anchor line should always form an angle of ______ or less with the bottom. TASK BCM-04-04-TYPE: Assist in Weighing the Boat's Anchor 1. Slack in the anchor line should be ______ as the boat is moved ahead.

If the anchor refuses to break free, the line should be ______ around the forward bitt while the Coxswain moves

2. As the line is brought aboard, it should be faked on deck or stowed below _____

ahead a few feet to break it free.



TASK BCM-04-05-ANY: Identify the Common Navigation Lights Displayed by Ships and Boats The purpose of navigational lights is to ______ vessels of the presence or approach of another boat. 1. Navigational lights also aid in determining the ______ of the boat. 2. _____to _____ and in times of restricted visibility. Lights must be used from ____ 3. A green sidelight means you are looking at a boat's _____ side. A red sidelight means you are looking at a boat's _____ 5. If you see both a red and green sidelight, it means you are looking at the boat A power-driven boat 50 meters or more in length must display red and ______ sidelights, a masthead light, a stern light, and a ______light. 8. A power-driven boat less than 50 meters in length must display red and _______ sidelights, a masthead light, and a _____ light. 9. A power-driven boat less than 7 meters and whose maximum speed does not exceed 7 KTS only has to show an _____ 10. Sailing vessels less than 12 meters (international) or 20 meters (inland) in length must display red and green sidelights, or a red and green _____ light, along with a stern light. 11. On sailboats and rowboats less than 7 meters in length, if regular running lights are unavailable, they may display TASK BCM-04-06-ANY: **Identify the Common Sound Signals Used by Ships and Boats** 1. A short blast is about second(s) in duration. A prolonged blast is from _____ to ____ seconds in duration. 2. Vessels 12 meters in length or more must carry a ______ along with a whistle. If you hear a gong, you know the boat is at least _____ meters long. 4. Vessels under 12 meters in length are required to A power-driven boat underway in conditions of reduced visibility sounds 6. Sailing vessels during periods of reduced visibility sound _____. 7. Bells and gongs are used by vessels that are ____ 8.



IA	ASK BUM-04-07-ANY: Identity and Describe Accepted Maritime Distress Signals	
1.	MAYDAY, MAYDAY is the priority of urgency call.	
2.	A gun fired at intervals of about minute(s) may be used as an emergency signal.	
3.	Rockets, shells, or flares should be of a color to indicate an emergency.	
4.	A square flag above a also can be a distress signal.	
5.	Two lights in a line may be used to indicate that a bodown.	at is broken
6.	Slowly and outstretched arms indicates an emergency.	
7.	The signal ··· means and indicates an situation.	
TA	ASK BCM-04-08-ANY: Stand a Lookout Watch	
1.	It is the lookout's job to report everything or to the boat	Coxswain.
2.	When making reports, the lookout should first the object and than give the direction in to the object.	
3.	Lookouts should always remain at their Station until	
4.	If a report to the Coxswain is not acknowledged, it should be	
5.	When looking for a person or object in the water, a scanning technique should be used.	
6.	Dark adaptation requires or more, but may be destroyed in less than	·
TA	ASK BCM-04-09-ANY: Act as a Helmsman and Steer a Compass Course	
1.	The arc of the compass card is divided into°.	
2.	A reading of 000° on the 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 should always all orders given to him/her by the Coxs	wain.
5.	The helmsman should attempt to maintain a course within°.	
6.	The helmsman should not execute any orders unless by the Coxswain.	



TASK BCM-04-10-T	YPE:	Get the Boat Away From a Pier
Single-Screw Boats	1.	While leaving a pier, when in the clear, the Coxswain moves ahead and applies right or left rudder
	2.	The pivot point is normally of the way aft of the bow.
	3.	When clearing a pier, against a current, the Coxswain should go ahead slowly then put the rudder over toward the
	4.	When the stern is clear, the bow should be cast off and the Coxswain should shift the rudder and back away.
Twin-Screw Boats	5.	The screws are arranged so that the top of each blade moves
	6.	The starboard screw is right-handed and the port screw ishanded.
	7.	With the starboard screw astern and the port screw stopped, the stern of the boat will move to
	8.	With the starboard screw ahead and the port screw astern, the boat will in a leftward direction.
	9.	When clearing a pier, port side to, against the wind or current, the Coxswain should go ahead on the engine and astern on the with full rudder, until the stern clears.
TASK BCM-04-11-T	YPE:	Moor the Boat
Single-Screw Boats	1.	When mooring port side to, with a wind or current from astern, the approach should be made using an approximatelyo angle.
	2.	When mooring port side to, against the wind or current, the approach should be made on an angle, as the wind will tend to throw the out.
	3.	When mooring port side to, against the wind or current, after the bow spring line is secured, the Coxswain should use full rudder and kick the engine
	4.	When mooring starboard side to, with no wind or current, the approach angle should be as as possible.
Twin-Screw Boats	5.	When mooring port side to, the approach should be made slowly at an approximatelyo angle.
	6.	When mooring port side to, after securing the bow line, the Coxswain should applyfull rudder and go ahead on the engine.



TASK BCM-04-12-TYPE: **Boat Handling Environmental** 1. The _____ acts on the hull, topsides, and, on smaller boats, the crew. **Forces** affect the boat handling in various ways, depending on their height and direction and the particular boat's characteristics. _ may affect a boat to the same degree as 30 KTS of wind. Strong _ will easily move a boat upwind. **Vessel Generated** When rotating to move in a forward direction, a ______ draws its supply of water from every direction forward of and around the blades. **Forces** Regardless of whether the propeller is turning to go ahead or astern, the water flow pattern in the propeller's arc of rotation is called In addition to the thrust along the shaft axis, another effect of propeller rotation is The speed of the water flowing past the ______ greatly enhances the _____ force. 7. When a hull moves forward through the water, the effective _____ moves forward. 8. In single-screw vessels, propeller side force presents a major obstacle to ______ in the direction you want.



Section E. Reading Assignments

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-ANY	Operate a VHF-FM Radiotelephone	Boat Crew Seamanship Manual, COMDTINST M16114.5 (series)	2-101
BCM-05-02-ANY	Operate	Boat Crew Seamanship Manual, COMDTINST M16114.5 (series) Radio/Transceiver – Operator's Manual	2-101
BCM-05-03-ANY	Use the VHF-FM Radiotelephone to Give a Position or Operations Report	Boat Crew Seamanship Manual, COMDTINST M16114.5 (series)	2-101

6.



TASK BCM-05-01-ANY: Operate a VHF-FM Radiotelephone The effective range of the VHF-FM radio is up to _____ miles. The squelch control should be turned counterclockwise until just beyond the point where the _____ disappears. 3. The CG VHF-FM radios will automatically monitor Channel ____ 156.65 MHz, Channel 13 is the boat ______ to _____ frequency. 156.8 MHz, Channel ______ is the international VHF-FM calling and distress frequency. 5. TASK BCM-05-02-ANY: Operate an Agency Radio 1. Agency boats carry an _____ radio as a _____ communications system. The noise limiter should be ______ as necessary to reduce _____ noise (static) while receiving. The international distress and calling frequency is ______ KHz. is designated a _____ frequency, and used for multiple agencies to communications with 4. them. TASK BCM-05-03-ANY: Use the VHF-FM Radiotelephone to Give a Position or Operations Report 1. Every transmission should be ended with the words ______ or _____. 2. Message should be sent ______ so that the receiving party will have a chance to copy the entire message. The microphone should not be _____ until you are ready to speak. Unofficial conversations should/should not be transmitted. 4. Only _____ prowords or abbreviations should be used.

The ______ alphabet is used to spell difficult words, which are hard to understand over a radio.



Section F. Reading Assignments

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-06-01-ANY	Identify the Symbols, Abbreviations and Basic Symbols of a Nautical Chart	Boat Crew Seamanship Manual, COMDTINST M16114.5 (series) Nautical Chart Symbols Abbreviations and Terms Chart No. 1	2-104
BCM-06-02-ANY	Identify Common Aids to Navigation Used for Inland and Coastal Piloting	 Boat Crew Seamanship Manual, COMDTINST M16114.5 (series) Nautical Chart Symbols Abbreviations and Terms Chart No. 1 The American Practical Navigator 	2-104
BCM-06-03-ANY	Identify Local Landmarks on a Nautical Chart	 Boat Crew Seamanship Manual, COMDTINST M16114.5 (series) Nautical Chart Symbols Abbreviations and Terms Chart No. 1 	2-104
BCM-06-04-ANY	Plot a Position Using Latitude and Longitude	Boat Crew Seamanship Manual, COMDTINST M16114.5 (series) The American Practical Navigator	2-105
BCM-06-05-ANY	Plot a Magnetic Course on a Nautical Chart	Boat Crew Seamanship Manual, COMDTINST M16114.5 (series) The American Practical Navigator	2-105
BCM-06-06-ANY	Measure Distance on a Nautical Chart	Boat Crew Seamanship Manual, COMDTINST M16114.5 (series) The American Practical Navigator	2-105
BCM-06-07-ANY	Compute Time, Speed, and Distance	Boat Crew Seamanship Manual, COMDTINST M16114.5 (series) The American Practical Navigator	2-105
BCM-06-08-ANY	Determine the Depth of Water Using a Fathometer/Depth Sounder	Boat Crew Seamanship Manual, COMDTINST M16114.5 (series) Fathometer Depth Sounder Operator's Handbook	2-105
BCM-06-09-TYPE	Use Radar to Identify Objects	 Boat Crew Seamanship Manual, COMDTINST M16114.5 (series) The American Practical Navigator Radar Operator's Handbook 	2-106

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Task Number	Task Title	Reading Assignment	See Page
BCM-06-10-TYPE	Determine the Range and Bearing to an Object Using Radar	 Boat Crew Seamanship Manual, COMDTINST M16114.5 (series) The American Practical Navigator Radar Operator's Handbook 	2-106
BCM-06-11-TYPE	Use Radar to Obtain and Interpret Relative Bearings and Ranges to a Moving Target to Determine if Risk of Collision Exists	 Knights Modern Seamanship; Eighteenth Edition, Pages 611-616 The American Practical Navigator Radar Operator's Handbook 	2-106
BCM-06-12-TYPE	Operate the VHF-FM Direction Finder and Steer on a Signal	Manufacturer's Operating Manual	2-107
BCM-06-13-TYPE	Obtain a Fix Using GPS/DGPS	Boat Crew Seamanship Manual, COMDTINST M16114.5 (series) The American Practical Navigator	2-107
BCM-06-14-TYPE	Plot a Position Using LORAN-C TDs	Boat Crew Seamanship Manual, COMDTINST M16114.5 (series) The American Practical Navigator	2-107
BCM-06-15-TYPE	Operate the Electronic Charting System	None assigned	



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

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(o).
6.	All meridians intersect at the
7.	Charts are oriented with at the top.
8.	Any location on a chart can be expressed in terms of and
9.	True direction is printed around the of the compass rose.
10.	The sounding numbers show the water level at tide.
11.	The scale of a chart is a ratio of a distance on the chart and the actual distance on the
12.	A buoy's type is indicated by the printed with it.
13.	The color of a buoy symbols print indicates the of the buoy.
14.	The symbol for a lighthouse or other fixed light is a black with a magenta
15.	Ranges are indicated by the symbol for lights and a indicating the direction.
16.	Day beacons are indicated by small
17.	Coastlines are viewed at both and water.
TAS	SK BCM-06-02-ANY: Identify Common Aids to Navigation Used for Inland and Coastal Piloting
1.	When steering on a range, if the top and bottom marks are in line, it means you are of the center of the channel.
2.	A cylindrical buoy that tapers to a blunt point at the top is called a buoy.
3.	Channel buoys that are painted green should be taken on the side of the boat when entering a harbor.
4.	Permanent navigation aids positioned the same as a buoy are beacons.
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.
TAS	SK BCM-06-03-ANY: Identify Local Landmarks on a Nautical Chart
1.	Prominent landmarks such as towers, smoke stacks, 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?



TA	SK BCM-06-04-ANY:	Plot a Position Using Latitude and I	Longitude
1.	The lines are parallel to the	e Equator are known as	·
2.	To measure latitude, put of	ne point of a pair of dividers on the	nearest the object.
3.	To measure longitude, put	one point of a pair of dividers on the	nearest the object.
4.	For latitude, use the	scale.	
5.	For longitude, use the	scale.	
TA	SK BCM-06-05-ANY:	Plot a Magnetic Course on a Nautic	al Chart
1.	Direction, generally refer	red to as a bearing, is measured in degree	esthrough
2.	In boat navigation you wi	ll usually usecourse	es and bearings.
3.		c direction using a parallel rule, place the of the compass rose and the bearing i	
TA	SK BCM-06-06-ANY:	Measure Distance on a Nautical Cha	art
1.	In piloting, distance is me	asured in or	
2.	The	mile is used for measurement on mos	t navigable waters.
3.	One nautical mile is appro	eximately yards.	
4.	Distance should be measured.	red using the latitude scale	to the latitude where the distance is being
5.	When the distance to be n minutes and then used to	neasured is greater than the span of the domination of the distance of the dis	ividers, the dividers should be set at a given number of see between the points to be measured.
TA	SK BCM-06-07-ANY:	Compute Time, Speed, and Distance)
1.		and speed problems when piloting a bomiles, the speed in	at, the distance is always measured in, and the time in
2.		sed to the nearest of f a knot, and time to the nearest	
3.	The nautical		was designed to solve time, distance, and speed problems.
4.	By setting any two of the	values on their opposite scales, the third	can be read from the appropriate
TA	SK BCM-06-08-ANY:	Determine the Depth of Water Using	g a Fathometer/Depth Sounder
1.		r the fathometer depth sounder is normal from the reading in order for the	ly mounted above the low point of the hull, the difference reading to be accurate.
2.	Water depth is indicated b	y a on	the video screen per digital readout.
3.	The fathometer depth sour	nder is turned on by turning the	switch.
4.	The fathometer depth sour	nder can be set to measure either	or



TASK BCM-06-09-TYPE: Use Radar to Identify Objects

1.	Radar navigation depends on the operator's operating area.	with radar operation and knowledge of the
2.	The advantages of radar are:	
	a. Can be used at night or periods ofb. Fixes can be obtained	
	c. Fixes are available at greater distances from	than from most other methods of piloting.
3.	The disadvantages of radar are:	
	 a. It is subject to mechanical and	range limitations.
4.	The brilliance control should be set so that the sweep is barely	
5.	· ·	-
6.		
7.	The plan position indicator indicates representation of the are	bearing of a target and presents a around the boat.
8.	The center of the screen represents the position of your	
9.	Sandy spits, mud flats, and sandy beaches return the	andechoes.
10.). Buoys with radar reflectors will appear	to their actual size.
TA !	ASK BCM-06-10-TYPE: Determine the Range and Bearin The bearing of a target is represented by the direction of its and the range is represented by its	from the center of the screen
2.		
3.		
4.	When obtaining target ranges,	nust be used between rings.
5.	If the radar has a range marker, the ra	nges can be read directly.
TAS	ASK BCM-06-11-TYPE: Use Radar to Obtain and Interpr Determine if Risk of Collision Ex	et Relative Bearings and Ranges to a Moving Target to ists
1.		of collision, the boat which has the other on her own e circumstances of the case admit, avoid crossing
2.		eeting onor nearly each shall alter her course to starboard so that each shall pass
3.	Just as is true of a visual bearing, the radar bearing of an approx a decreasing), is indicative of a collision course	
4.	Assumptions shall not be made on the basis of	, especially scanty radar information.



TA	ASK BCM-06-12-TYPE: Operate the VHF-FM Dire	ction Finder and Steer on a Signal
1.	The VHF-FM homer allows you to zero in on the	of FM radio signal you are receiving.
2.	The direction is shown on a	display screen.
3.	The source must continue to as	you track it.
4.	After tuning the set, the boat is swung in the direction of	the pointer until it itself.
5.	After centering, the boat's head should be swung	o to be sure the source is ahead, not aft.
TA	ASK BCM-06-13-TYPE: Obtain a Fix Using GPS/De	GPS
1.	GPS is a radio navigation system of satellites opera	ated by the
2.	It is available hours per day,	, in all weather conditions.
3.	In a process called "", a GPS receiver or the satellite.	the boat uses the signal to determine the distance between it and
4.	Once the receiver has computed the range for at least accurate to about meters.	satellites, it processes a three-dimensional position that is
5.	GPS provides two levels of service (PPS) for military users.	(SPS) for civilian users, and
TA	ASK BCM-06-14-TYPE: Plot a Position Using LOR	AN-C TDs
1.	LORAN-C is used for precise	over long distance.
2.	LORAN-C can pinpoint a boat position within	of a mile almost anywhere in the world.
3.	You determine your position by matching the line figure superimposed on a chart.	s displayed on the set to set of Loran



Section G. Reading Assignments

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-07-01-TYPE	Participate in a Man Overboard Evolution as a Pointer	Boat Crew Seamanship Manual, COMDTINST M16114.5 (series)	2-110
BCM-07-02-TYPE	Participate in a Man Overboard Evolution as a Recovery/Pickup Person	Boat Crew Seamanship Manual, COMDTINST M16114.5 (series) H.S. Company Company (1997) H.S. Company (1997) H	2-110
		U.S. Coast Guard Addendum to the United States National Search and Rescue Supplement (NSS) to the International Aeronautical and Maritime Search and Rescue Manual, COMDTINST M16130.2 (series)	
BCM-07-03-ANY	Participate in a Man Overboard Evolution as a Surface Swimmer	Boat Crew Seamanship Manual, COMDTINST M16114.5 (series)	2-110
		U.S. Coast Guard Addendum to the United States National Search and Rescue Supplement (NSS) to the International Aeronautical and Maritime Search and Rescue Manual, COMDTINST M16130.2 (series)	
		Rescue and Survival Systems Manual, COMDTINST M10470.10 (series)	
BCM-07-04-ANY	Stokes Litter	None assigned	
BCM-07-05-TYPE	Recover a Person-in-the-Water with the Stokes Litter	Rescue and Survival Systems Manual, COMDTINST M10470.10 (series)	
BCM-07-06-ANY	Helicopter Operations	None assigned	
BCM-07-07-TYPE	Conduct Helo-Ops	Boat Crew Seamanship Manual, COMDTINST M16114.5 (series)	2-111
BCM-07-08-ANY	Fire the MK-127A1 Parachute Illumination Signal	Boat Crew Seamanship Manual, COMDTINST M16114.5 (series)	2-111
BCM-07-09-ANY	Bend a Heaving Line to a Bridle and Pass the Heaving Line to Another Boat	Boat Crew Seamanship Manual, COMDTINST M16114.5 (series)	2-112
BCM-07-10-TYPE	Pass a Towline to Another Boat	Boat Crew Seamanship Manual, COMDTINST M16114.5 (series)	2-112
BCM-07-11-ANY	Connect a Towline to a Trailer Eyebolt Using a Shackle or Skiff Hook	Boat Crew Seamanship Manual, COMDTINST M16114.5 (series)	2-112
BCM-07-12-TYPE	Secure an Alongside Tow	Boat Crew Seamanship Manual, COMDTINST M16114.5 (series)	2-112

Part 2 - Boat Crew Member Qualification Chapter 3 - Boat Crew Member Trainee Study Guide



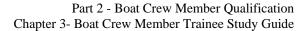
Task Number	Task Title	Reading Assignment	See Page
BCM-07-13-ANY	Prepare Portable Pump for Operation, Start, and Obtain Suction	Boat Crew Seamanship Manual, COMDTINST M16114.5 (series)	2-113
BCM-07-14-TYPE	Assist in Passing a Portable Pump Directly to Another Boat	Boat Crew Seamanship Manual, COMDTINST M16114.5 (series)	2-113
BCM-07-15-TYPE	Rig and Operate an Eductor to Obtain Suction	Boat Crew Seamanship Manual, COMDTINST M16114.5 (series)	2-113
BCM-07-16-ANY	Identify the Different Classes of Fires and State the Fuel Sources; State the Primary Extinguishing Agents for Each Class of Fire	Boat Crew Seamanship Manual, COMDTINST M16114.5 (series)	
BCM-07-17-TYPE	Locate and Identify the Firefighting Equipment Carried Onboard the Boat	None assigned	2-114
BCM-07-18-ANY	Demonstrate Knowledge of the Operation of a CO ₂ Fire Extinguisher	Boat Crew Seamanship Manual, COMDTINST M16114.5 (series)	2-114
BCM-07-19-ANY	Demonstrate Knowledge for the Operation of a Dry Chemical Fire Extinguisher	Boat Crew Seamanship Manual, COMDTINST M16114.5 (series)	
BCM-07-20-TYPE	Assemble Equipment for the Boat's Main Firefighting System	None assigned	
BCM-07-21-TYPE	Engage the Boat's Main Fire Pump	None assigned	2-114
BCM-07-22-TYPE	Operate a Navy Vari-Nozzle	Boat Crew Seamanship Manual, COMDTINST M16114.5 (series)	2-114
BCM-07-23-TYPE	Demonstrate Knowledge of the Procedures to Combat a Fire in the Engine Space	Boat Crew Seamanship Manual, COMDTINST M16114.5 (series)	
BCM-07-24-TYPE	Demonstrate the Appropriate Response to the Basic Engineering Casualty Control Exercises (BECCE)	None assigned	



TASK BCM-07-01-TYPE: Participate in a Man Overboard Evolution as a Pointer The first crew member to observe a person overboard should give the alarm by yelling "man _____" followed by either "______ side" or "______ side". _____proceed to his/her _____Station. The pointer will keep the victim in ______ and continuously _____ to the victim's position. TASK BCM-07-02-TYPE: Participate in a Man Overboard Evolution as a Recovery/Pickup Person The recovery/pickup person prepares the ______ heaving line for casting to the victim. After the victim has been brought alongside the boat, the recovery/pickup person should __ aboard. TASK BCM-07-03-ANY: Participate in a Man Overboard Evolution as a Surface Swimmer 1. A rescue swimmer is designated when the man overboard is _____ or ____ The rescue swimmer must wear a _____ or wet _____, with a PFD, a swimmers _____, and a helmet. TASK BCM-07-05-TYPE: Recover a Person-in-the-Water with the Stokes Litter



TAS	SK BCM-07-07-TYPE: Conduct Helo-Ops	
1.	Emergency exits on USCG helicopters are marked with and	lettering.
2.	There are emergency exits on the HH-60J.	
3.	The basket should be before being touched by any crew member.	
4.	Trail line, basket slings, or hoisting cables should never be to the boat during the operation.	
5.	The hoisting cable and trail lines should be at all times.	
6.	During breakaway procedures, the crew member is responsible for the litter or basket, line, and loose cable over the side.	
TAS	SK BCM-07-08-ANY: Fire the MK-127A1 Parachute Illumination Signal	
1.	Upon ignition, the MK-127A1 produces a star.	
2.	The MK-127A1 can climb to an altitude of to FT.	
3.	The flare will provide illumination for approximately seconds.	
TAS	SK BCM-07-09-ANY: Bend a Heaving Line to a Bridle and Pass the Heaving Line to Another Boat	
1.	A minimum of turns of towline should always be kept on the reel.	
2.	For offshore work, it is recommended that a minimum of FT of towline be carried.	
3.	You cannot tow beyond the design characteristics of any towing boat simply bysize.	the line
4.	Thimbles are used to load on the eye and provide maximum protection to the inne eye from abrasion and wear.	er top of the
5.	The towline should be inspected frequently for damage resulting from cutting,	using, and
6.	A towing bridle should be used in cases where a attachment available on the boat to be towed.	point is not
7.	The message line is simply a length of light line, which can be, propelled, or floated furthetow line.	r than the
8.	Having the working with the heaving line increases the range.	
9.	The heaving line should be to make it more flexible and less susceptible to becoming tangled.	





TASK BCM-07-10-TYPE: Pass a Towline to Another Boat Where conditions permit and the towing boat can maneuver enough, the towline should be passed _____to one of the people on the other boat. 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. When attaching to tow bow cleats or bitts, a ______ should be used. Single leg bridles are generally used in towing _____ TASK BCM-07-11-ANY: Connect a Towline to a Trailer Eyebolt Using a Shackle or Skiff Hook The trailer eyebolt is normally located on the ______. Skiff hook assemblies breaking strength should be ______ or greater than the breaking strength of the Connecting the towline with a shackle should only be done in _____ or moderate weather conditions. After tightening the shackle ______, it should be moused. TASK BCM-07-12-TYPE: Secure an Alongside Tow When taking a boat alongside, the ______ takes the strain of forward movement. When taking a boat alongside, the ______ takes the strain of backing down. 2. Always rig ______ to prevent hull damage. When shortening the tow, you should ______ in the slack from the towline to bring the disabled boat alongside. When securing the boat alongside, you should lead the ______ forward to use as the bow line. TASK BCM-07-13-ANY: Prepare Portable Pump for Operation, Start, and Obtain Suction 1. Pull the handle to release a _____ on the storage container. Connect a discharge hose and lay it out on deck so there are no _____ or ____. A pump can run dry for ______, but it was designed to be started only after suction has been taken. 3. The engine will run approximately ______ hours on one tank of fuel, depending on conditions. A pump watch must be alert for ______ around the strainer and must ensure the strainer remains _____. Watch



TASK BCM-07-14-TYPE: Assist in Passing a Portable Pump Directly to Another Boat The bridle should be attached to the ______ container handles. line should be rigged to control the movement of the pump after the pump is in the water. After passing the heaving line, the _____ _____ is lowered over the side and the people on the __ in on the line. other boat are directed to _____ TASK BCM-07-15-TYPE: Rig and Operate an Eductor to Obtain Suction 1. Dewatering, using an eductor, is performed when weather conditions permit your boat to the disabled boat safely. After rigging, the eductor is ______ in the flooded area. pulls the water up through the suction hose and out the discharge hose. TASK BCM-07-16-ANY: Identify the Different Classes of Fires and State the Fuel Sources; State the Primary **Extinguishing Agents for Each Class of Fire** 1. Fire is a chemical _____known as combustion. The four elements of a fire are oxygen, heat, ______, and _____ chain reaction. 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 _____. 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 ____ Fires involving combustible ___ _____, with fuel sources such as sodium, potassium, or magnesium, are classified as Class _____ Fires. Given that these type fires are not easily extinguished, the best agents to use for control of the fire are 6. Fires involving energized ______ equipment, such as conductors or appliances, are classified as Class _____ fires. 7. The principle remedy for these type fires is to secure the _____ and to apply _____ to the fire.



TA	SK BCM-07-18-ANY: Demonstrate Knowledge of the Operation of a CO ₂ Fire Extinguisher
1.	The standard CO ₂ fire extinguisher used on Coast Guard boats is the pound.
2.	The range of the extinguisher is approximately FT.
3.	The CO ₂ is released in the form of a fine white
4.	Be careful not to let the extinguisher's discharge touch your
5.	When using the extinguisher, the cylinder should be kept
TA	SK BCM-07-19-ANY: Demonstrate Knowledge for the Operation of a Dry Chemical Fire Extinguisher
1.	The effective range for a dry chemical fire extinguisher is FT.
2.	When using dry chemical approach the fire from the side of the fire.
3.	The dry chemical should be pointed at the of the fire and use a motion.
TA	SK BCM-07-22-TYPE: Operate a Navy Vari-Nozzle
1.	Straight stream is employed when and penetrating power are critical.
2.	Wide-angle fog can cool a muchsurface than a steady stream.
3.	The vari-nozzle has different positions.
4.	When the handle is forward the nozzle is in the position.
5.	To change patterns youthe black tip.
6.	When the handle is back, the nozzle is in the position.
TA	SK BCM-07-23-TYPE: Demonstrate Knowledge of the Procedures to Combat a Fire in the Engine Space
1.	The first thing to do in the case of an engine space fire is to secure the(s).
2.	Some of the causes of engine space fires are electrical, line leaks and lube oil line leaks.
3.	The quickest, most likely way to attack an engine space fire is with CO ₂ and extinguishers.
4.	After all fire extinguishers have been expended, and if possible, the supply to the space should be secured.

