# BOAT CREW Qualification Guide

# Vol. IV – Heavy Weather Coxswain COMDTINST M16114.26

"Train, Maintain, Operate"





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COMDTINST M16114.26

JUL 1 5 2002

#### **COMMANDANT INSTRUCTION M16114.26**

Subj: BOAT CREW QUALIFICATION GUIDE, VOLUME IV – HEAVY WEATHER COXSWAIN

- 1. <u>PURPOSE</u>. This Manual provides updated standardized performance objectives and guidance for the purpose of training and certifying personnel as heavy weather coxswains on Coast Guard boats.
- 2. <u>ACTION</u>. Area, district, activities, section and group commanders, and commanding officers/officers-in-charge of all units with boats assigned shall comply with this Manual in the training and certification of heavy weather coxswains. Waivers of specific requirements will not normally be granted. Internet release authorized.
- 3. <u>DIRECTIVES EFFECTED</u>: Boat Crew Qualification Guide Surfman, COMDTINST M16114.14, (dated 16 May 1989) is hereby canceled. This newly promulgated Boat Crew Qualification Guide replaces some tasks previously found in the Boat Crew Qualification Guide Surfman, COMDTINST M16114.14. Conditions and standards have been changed to match readiness requirements.
- 4. <u>DISCUSSION</u>. The Coast Guard's boat crew training remains a performance based training program. The qualification tasks within this Heavy Weather Coxswain Qualification Guide relate to knowledge and skills necessary to meet the challenges in the heavy weather and surf environment. The command must ensure that a prospective heavy weather coxswain also has the needed attitudes and abilities associated with maturity, sound judgment, and experience. Where the sea state or geographic location present significantly increased hazards for mariners, our boat operators must demonstrate a higher level of seamanship to safely work in this high-risk environment. The experience level of Coast Guard boat crews must be matched with the design capabilities and limitations of our boat resources to meet the readiness and operational requirements demanded of our multi-mission stations. The implementation of this Heavy Weather Coxswain Qualification Guide seeks to better align the boat crew training program with the challenges of the missions.

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### **COMDTINST M16114.26**

5. <u>PROCEDURES</u>. Personnel assigned to a unit with surf capable boats and who are already certified as surfman need not re-certify using this manual. Procedures for newly certifying members, currency maintenance, and re-certification due to permanent change of station transfer or lapse of certification will be found in the Boat Crew Training Manual, COMDTINST M16114.9 (series). Any questions should be resolved through discussion with Commandant (G-OCS-1).

H. E. JOHNSON

Director of Operations Capability



# **RECORD OF CHANGES**

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# Chapter 1 Introduction

### Introduction

The Boat Crew Qualification Guides are an integral part of the boat crew qualification and certification process. Each volume contains a collection of tasks which must be learned, practiced, and performed by the trainee. These tasks represent the minimum elements of skill and knowledge necessary for safe and effective performance of a Coast Guard heavy weather coxswain.

# In this chapter

This chapter contains the following sections:

Section	Title	See Page
A	Steps in the Qualification and	1-3
	Certification Process	
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С	Instructor Guidance	1-11
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# Section A. Steps in the Qualification and Certification Process

#### Introduction

This section will explain the qualification/certification system requirements and procedures that the trainee should understand before completing specific tasks.

# A.1. Designation to the training program

The trainee is designated to the training program by the unit command.

# A.2. Assignment of primary instructor

An experienced and certified petty officer is assigned as the trainee's primary instructor.

# A.3. Completion of appropriate qualification guide

The trainee completes the appropriate qualification guide. To accomplish this, he/she must follow the procedure below:

Step	Procedure
1	Trainee is assigned task.
2	Trainee completes reading assignment.
3	Task is demonstrated to trainee.
4	Trainee is walked through task.
5	Trainee practices task.
6	Trainee demonstrates proficiency in task up to task standard.
7	Task is signed off.

# A.4. Certification process

Upon completion of the qualification process, the trainee completes the certification process as outlined in the steps below:

Step	Procedure
1	Boat Crew Examination Board interviews trainee.
2	Trainee completes a comprehensive check-ride.
3	Boat Crew Examination Board issues recommendation to the command.
4	Command certifies trainee.

NOTE &

For a complete discussion of the qualification/certification process, refer to *Boat Crew Training Manual*, COMDTINST M16114.9 (series).

# Chapter 1 - Introduction





# Section B. Description of the Manual

#### Introduction

This manual is *Volume IV* of the *Boat Crew Qualification Guide*. There are five manuals making up the guide. They are:

• Volume I - Boat Crew Member

• Volume II - Coxswain

• Volume III - Engineer

• Volume IV - Heavy Weather Coxswain

• Volume V - Surfman

Each volume is made up of three major chapters:

• Chapter 1 - Introduction

• Chapter 2 - Qualification Tasks

• Chapter 3 - Trainee Study Guide

## Chapter 1 consists of:

- Explanations of the qualification/certification system
- Descriptions of the qualification manuals
- Guidance concerning the responsibility of the instructor and the trainee while using the qualification guides

*Chapter 2* is made up of the qualification tasks, which are designed to measure the trainee's progress.

*Chapter 3* provides guidance for the trainee's reading assignments and is to be removed and retained by the trainee.

## In this section

This section contains the following two parts.

Торіс	See Page
Sample Task	1-6
Description of Tasks	1-7



# Sample Task

TASK HW-02-01-ANY	Identify the Different Parts of a Line and the Hitches Used in Line Handling
References	a. Boat Crew Seamanship Manual, COMDTINST M16114.5 (series)
Conditions	Task should be performed at any time onboard any of the unit's boats without the use of any references or prompting.
Standards	In response to the instructor, the trainee must, without error, identify different parts of a line and basic knots.

	Performance Criteria	Completed (Initials)
1.	Correctly identify bitter end of line.	<u> IMU</u>
2.	Correctly identify standing part of line.	<u> IMU</u>
3.	Make bight in the line.	<u> IMU</u>

Instructor	MK2 I. M. UNDERWAY	Date	25 OCT 99
Comments			



# **Description of Tasks**

# **B.1.** Task designation Tasks are identified by designation. Below are two examples with explanations of the qualification task designations: B.1.a. Example 1 HW-02-03-ANY Task can be accomplished on any boat. ANY tasks are considered transferable from boat to boat and, therefore, need only be done once. Task designation number Division designation number Volume designation number – Heavy Weather Coxswain B.1.b. Example 2 HW-02-03-TYPE Indicates that the task must be done individually for each different boat type for which qualification is desired. Task designation number Division designation number Volume designation number – Heavy Weather Coxswain B.2. Task The knowledge or skill objective to be performed. **B.3.** Reference Information sources used by the trainee and instructor to obtain the background necessary to enhance task performance. **B.4.** Conditions The conditions are the environmental and physical circumstances under which the tasks must be performed. Any tools or special equipment needed for the completion of the task are listed here. The conditions listed with each task must be met. The following definitions describe the terms found in the conditions and standards: B.4.a. Heavy weather Heavy weather is defined as seas and swell conditions combining to exceed 8

feet and/or the winds exceeding 30 knots.



B.4.b. Rough bar

A rough bar is a river entrance or inlet where heavy seas or surf conditions exist, and/or whenever there is doubt in the judgment of the coxswain or the Commanding Officer/Officer-in-Charge.

B.4.c. Surf

The waves or swell of the sea breaking on the shore or a reef is defined as surf

B.4.d. Boat operations

Term Definition						
Slow	Underway and moving ahead at clutch speed or slower					
Underway	Not tied to a pier or float and not anchored or moored					

B.4.e. Visibility

Term	Definition					
Restricted	Visibility less than ¼ mile					
Clear	All other states of visibility					

B.4.f. Sea conditions

Term	Definition
Calm	Seas less than 4 feet
Moderate	Seas 4 to 8 feet
Heavy	Seas greater than 8 feet
Surf	Waves or swell of the sea breaking on the shore or a reef

B.4.g. Operational guidelines for MLB and SPC (HWX) coxswains

	Sea	Wind	Surf
Coxswain	10 ft	30 kts	None
HW Coxswain	20 ft	40 kts	<8 ft
Surfman	30 ft	50 kts	20 ft

NOTE &

Heavy Weather Coxswains shall not attempt operations in surf unless they have demonstrated the proper skills through satisfactory accomplishment of the Surf Operations tasks in *Section D* of the *Boat Crew Qualification Guide*, *Volume IV – Heavy Weather Coxswain*, COMDTINST M16114.26.

# NOTE &

During the period a member is qualifying, the minimum sea conditions are just that, minimums. This qualifying period should include demonstration of skills during wind and sea conditions appropriate for the area. The unit commander should consider maximum weather limitations in conjunction with Commandant policies to ensure trainees build confidence and platform proficiency gradually. The trainee must practice in varied conditions within the above ranges and not just the minimums prior to certification.



#### **B.5.** Standards

Standards describe the expected outcome of the task. Successful task completion is a function of how well a student is able to complete the task without assistance. Generally the task performance standards are as follows:

### B.5.a. Knowledge tasks

Trainee must be able to cite, from memory, the required information. Instructors may wish to ask questions concerning particular steps for accomplishment in order to measure the trainee's total comprehension of the subject matter.

### B.5.b. Skill tasks

Trainee must be able to perform all performance tasks without prompting or assistance from the instructor. Each task demonstration must follow the correct sequence with little or no hesitation between the steps for accomplishment.

# **B.6.** Performance criteria

These steps delineate the procedure that is best followed for performing each task. They can be utilized two basic ways:

- Aid in learning the task.
- Serve as a performance check.

# B.6.a. Aid in learning the task

Some steps for task accomplishment follow exact procedures which are required for performing a particular operation or using a specific piece of equipment, while others serve as general guidelines for task completion.

# B.6.b. Serve as a performance check

Some task steps can serve as a performance checkoff which can be used by the instructor to measure trainee performance when the trainee performs the task.

## **B.7.** Accomplished

The designated instructor must print his/her name and rate, sign and date this line attesting that the trainee successfully performed the task in accordance with the prescribed standards.

## **B.8.** Comments

The comment section can be used to describe circumstances or conditions which might have a bearing on task completion. Failure to perform any element or unsatisfactory performance of an individual element should be noted in the comments section for the task. If the task is completed under more arduous circumstances than those described, a notation should be made.

## NOTE &

Appendix A provides a list of all tasks in this instruction with space for the instructor to initial and date when each task has been completed.

## NOTE &

Chapter 3 lists reading assignments for each division followed by a group of questions that should be used by the trainee as a study guide.

# Chapter 1 - Introduction





# Section C. Instructor Guidance

#### Introduction

An instructor must be thoroughly familiar with the boat crew training process. Intimate knowledge of the contents of the following manuals is a must prior to commencing training.

- Boat Crew Training Manual, COMDTINST M16114.9 (series)
- Boat Crew Seamanship Manual, COMDTINST M16114.5 (series)
- Operator's Handbook (Type Specific)
- Coast Guard Boat Readiness and Standardization Program Manual, COMDTINST M16114.24 (series)

### C.1. Duties

#### The instructor's duties include:

- Guiding the trainee through the qualification process in accordance with the instructions in *Chapter 1* of each qualification guide
- Teaching skills to trainees
- Observing trainee skill development during operations and training, while ensuring that established conditions and standards are met
- Certification recommendation to unit command upon completion of qualification process
- Maintaining own proficiency training and technical knowledge

# C.2. Guiding the trainee through the process

Tasks are meant to be learned through constant practice under the instructor's guidance. This is accomplished by following the procedural steps listed below and provided in **figure 1-1**.

# C.2.a. Give Chapter 3 to the trainee

Give the trainee the reading assignment and study guide questions. Remove *Chapter 3* from the manual and give it to the trainee to retain.



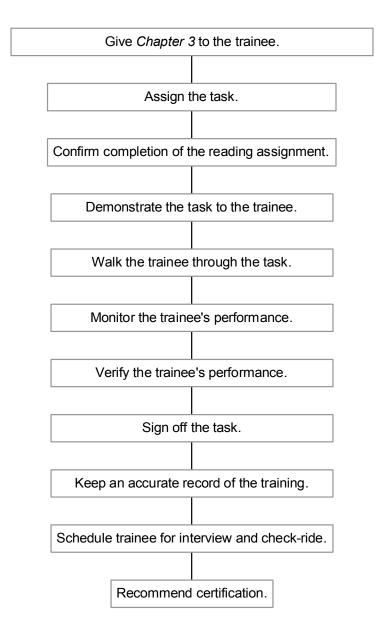


Figure 1-1 Procedures for Guiding Trainees



## C.2.b. Assign the task

While divisions may at times be done concurrently, the tasks within each division should normally be accomplished in consecutive order.

- Which tasks must be completed depends on the crew position and type of boat for which the trainee is being qualified. Those tasks which must be accomplished to qualify for each particular boat type are listed in *Section E* of this chapter.
- Tasks designated as TYPE are considered to be specific to each boat type. These must be completed individually for each desired boat type qualification.
- Tasks designated as ANY are considered general in nature. Completion of these tasks on any boat type is sufficient for the qualification process and need not be repeated when qualification is desired on another boat type.

# C.2.c. Confirm completion of the reading assignment

Care should be taken at this point to clarify any misunderstandings the trainee might have about the material.

# C.2.d. Demonstrate the task to the trainee

Demsonstrate the steps required to complete the task. During the demonstration, the instructor should narrate the procedures. If the task is one of the few that does not require demonstration, proceed to the next step.

# C.2.e. Walk the trainee through the task

In order to ensure that the trainee understands, the instructor may want to walk the trainee through the steps more than once. There is no limit to the number of times the instructor performs the walk-through, however, trainee understanding must be ensured before continuing.

# C.2.f. Monitor the trainee's performance

Trainee performance should be monitored during both training and operations. Qualification does not end with the first successful completion of the task. It is an ongoing process that ends only when successful task completion can be met consistently.



# C.2.g. Verify the trainee's performance

Verify that the trainee's performance meets the standard. This includes two parts:

- The trainee must be able to perform the task subject to established conditions and standards delineated for the task.
- The trainee must be able to perform the task with no assistance.

The trainee is expected to perfrom each task on a consistent basis in accordance with the established standards and conditions.

# C.2.h. Sign off the task

The instructor signs the task at the bottom of the page when he/she is confident that the trainee can perform the task consistently, while unsupervised.

# C.2.i. Keep an accurate record of the training

The instructor must ensure that all task completions are documented in this manual.

# NOTE &

As a quick reference of the trainee's progress, the instructor should maintain the task accomplishment record located in *Appendix A*. This is accomplished by entering the start date as each task is assigned and then initialing and entering the completion date as each task is completed.

# C.2.j. Schedule trainee for interview and checkride

Inform the unit commander when all tasks in this manual are completed. When the trainee has completed all of the required tasks for the position and boat type, the qualification process is done. The instructor should inform the Boat Crew Examination Board and schedule the trainee for an interview and certification check-ride.

# C.2.k. Recommend certification

When the Boat Crew Examination Board is satisfied with the trainee's performance and abilities, they may recommend to the unit commander that the trainee be certified.

# C.3. Proficiency maintenance and technical knowledge

It is imperative that a very high level of professionalism be maintained among all unit instructors. All instructors must ensure that their certification remains current. In addition, instructors must ensure that they retain their proficiency with all installed boat equipment.



## Section D. Trainee Guidance

#### Introduction

It is the trainee's responsibility to proficiently perform the tasks in accordance with the established standards. The tasks that make up *Chapter 2* of this guide represent the skills required to perform in the capacity of a heavy weather coxswain. There are four parts to this learning process:

- Read the assignments and ask questions.
- Pay attention during demonstrations.
- Complete walk-through with instructor.
- Practice the skill.

# D.1. Read the assignments and ask questions

First, the trainee must become familiar with each task. All reading assignments must be read carefully. The trainee should seek guidance from the instructor to clear up any uncertainties.

# **D.2.** Pay attention during demonstrations

Second, while the task is being demonstrated by the instructor, the trainee must pay close attention.

## D.3. Complete walkthrough with instructor

Third, the trainee will complete the task the first time with the instructor walking the trainee through the steps.

#### D.4. Practice the skill

Fourth, the trainee must practice the skill for consistent success at the task. The instructor will not sign off any task as complete until the trainee can consistently and correctly complete the task unsupervised.

# **D.5.** Certification process

Once all required qualifications are completed, the certification process can begin.

# Chapter 1 - Introduction





# Section E. Boat Types

### Introduction

The following sections indicate the current listing of standard and non-standard boat (NSB) types. Where this listing conflicts with other reference documents regarding currently authorized boat types, the *Boat Management Manual*, COMDTINST M16114.4 (series) shall take precedence. To efficiently manage the logistics and training aspects of NSBs, district commanders should make every effort to minimize the number of different types of NSBs within their district. Standard boats remain the primary unit response resource. Consistent with *Response Boats 2010 – The Shore-Based Response Boat Strategic Vision and Transistion Plan*, COMDTINST 16114.20 (series), units shall not substitute NSBs for standard boats, except at stations (small) where units use larger NSBs as the primary response resource.

#### Standard boats

ATON								
ANB	55' AtoN Boat							
BUSL	49' Stern Loading Buoy Boat							
Ship-base	d response							
CB-L	19' – 22' Cutter Boat, large assigned onboard WLB, WHEC, WMEC, WIX, and WAGB							
СВ-М	17' and 18' Cutter Boat, medium assigned onboard WLM, WPB and WTGB							
CB-S	14' and 15' Cutter Boat, small assigned onboard WLI, WLIC, WLR, 82' WPB and WYTL							
СВ-ОТН	24' Cutter Boat - Over the Horizon (Zodiac 733 Interceptor)							
MSB	26' Motor Surf Boat							
Shore-bas	ed response							
MLB	44' and 47' Motor Lifeboat							
SPC (HWX)	52' Heavy Weather Special Purpose Craft (previously the 52' MLB)							
UTB	41' Utility Boat, big							
Training s	specific							
ATB	41' Aviation Training Boat (same as 41' UTB)							



# Non-standard boats

Miscellane	eous
DPB	38' Deployable Pursuit Boat (Fountain)
TPSB	25' Transportable Port Security Boat (Boston Whaler)
ATON	
ANB	63' and 64' AtoN Boat
BU	45' Buoy Boat
Cable	Cable Servicing Special Purpose Craft
TANB	Trailerable AtoN Boat
Ship-based	d response
ASB	Arctic Survey Boat
LCVP	Landing Craft
MCB	Motor Cargo Boat
Shore-bas	ed response
IMARV	50' and 55' Independent Maritime Response Vessel
Training s	specific
CT-64	Cadet Training Boat
DPB	42' Deployable Pursuit Boat (Fountain)
SB	Sailboat
Miscelland	eous
Ferry	Ferry Special Purpose Craft
PWB	Port & Waterways Boat
SKF	Skiff – a trailerable, open construction boat < 19' without installed electronics used for unit tendering, waterborne maintenance, and specialized immediate vicinity SAR response.
SPC	General Special Purpose Craft – a boat that is unique in the performance of an authorized mission requiring specialized capability that cannot be met within the standardized shore-based response boat fleet.
SPC (LE)	Law Enforcement Special Purpose Craft
SPC (surf)	30' Surf Special Purpose Craft (previously the 30' SRB)



TPSB	22' Transportable Port Security Boat (Boston Whaler)
UTL	Utility Boat Light – a 17' – 28' 11" fiberglass or aluminum hulled boat that may have fendering, have installed electronics and engines, and does not fill an STA (sm) primary response boat allowance. The UTL is representative of the secondary response platform at multi-mission stations. UTL encompasses all remaining shore-based response boats (with the exception of skiffs and SPCs). It includes all boats, which previously filled RIBB, RIBM, UTL and RIBL allowances. Due to the variety of boats that make up this designation, a UTL may be funded at one of two possible SSLs based primarily on boat length.
UTM	Utility Boat Medium – a 25' – 40' 11" in length, closed or partially closed cabin, fiberglass or aluminum hulled boat that may have fendering, have installed electronics and engines, and fills an authorized STA (sm) allowance as the unit's primary response boat.

# Chapter 1 - Introduction





# Section F. Task List for Heavy Weather Coxswain

### Introduction

Which tasks must be completed depends on the crew position and type of boat for which the trainee is being qualified. Those tasks which must be accomplished to qualify for each particular boat type are listed below.

NOTE &	

# **BOAT TYPE**

TASK	SKI WP	RBM	CBL	ОТН	DPB	TPSB	TANB	MSB MCB	SPC	UTL	UTB	M	LB	BUSL ANB BU
111011	FR	RBS	СВМ				1111,12	ASB	510	012		44	47	IMARV LC
HW-01-01-ANY									X			X	X	
HW-01-02-ANY									X			X	X	
HW-01-03-TYPE									X			X	X	
HW-01-04-ANY									X			X	X	
HW-01-05-ANY									X			X	X	
HW-01-06-ANY									X			X	X	
HW-01-07-ANY									X			X	X	
HW-02-01-ANY									X			X	X	
HW-02-02-ANY									X			X	X	
HW-02-03-TYPE									X			X	X	
HW-02-04-ANY									X			X	X	
HW-02-05-ANY									X			X	X	
HW-03-01-ANY									X			X	X	
HW-03-02-TYPE									X			X	X	
HW-03-03-TYPE									X			X	X	



TASK	SKI WP	RBM	CBL	ОТН	DPB	TPSB	TANB	MSB	GP.G	UTL	UTB	MLB		BUSL ANB BU
TASK	FR	RBS	CBM	ОІН	DrB	IPSB	IANB	MCB ASB	SPC	UIL	UIB	44	47	IMARV LC
HW-03-04-TYPE									X			X	X	
HW-03-05-TYPE									X			X	X	
HW-03-06-TYPE									X			X	X	
HW-03-07-TYPE									X			X	X	
HW-03-08-TYPE									X			X	X	
HW-03-09-TYPE									X			X	X	
HW-03-10-TYPE									X			X	X	
HW-03-11-TYPE									X			X	X	
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HW-04-09-TYPE									X			X	X	
HW-04-10-ANY									X			X	X	



KEY &

X = Task required for boat type qualification. O = Task required, if equipped, for boat type qualification.

# NOTE ↔

Tasks required for the SPC may also be required of the boat crew members qualifying on the future Nearshore Lifeboat (NLB) or any other surf capable boat designated by Commandant (G-OCS). However, the operational limitations established for the NLB or any other surf capable boat must be compared to the standards for each task.

# Chapter 1 - Introduction





# **Chapter 2 Heavy Weather Coxswain Qualification Tasks**

#### Introduction

The following are the instructions for this chapter:

- This chapter is to be kept by the instructor or in the trainee's training record. Its purpose 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 *Chapter 1*.
- Tasks should be signed, dated and placed in the trainee's training record when the instructor is satisfied that the trainee can consistently perform a task in accordance with all standards and conditions.

## **Prerequisites**

A prospective Heavy Weather Coxswain must:

- Be assigned to an operational unit with a standard surf capable boat attached, and
- Be a certified coxswain on the boat type for which they are seeking this higher level of qualification.

## In this chapter

This chapter contains the following sections:

Section	Title	See Page
A	Heavy Weather and Surf Knowledge	2-3
В	Emergency Procedures or Response in Heavy Weather/Surf	2-13
С	Heavy Weather Operations	2-19
D	Surf Operations (Up to 8 feet)	2-43





# Section A. Heavy Weather and Surf Knowledge

## Introduction

The following are objectives of Division One:

• **Demonstrate** knowledge of heavy weather and surf conditions and operating boats under these conditions.

## In this section

This section contains the following tasks:

Task Number	Task	See Page
HW-01-01-ANY	Identify the Types of Breaking Seas, their Characteristics and Causes	2-5
HW-01-02-ANY	Explain the Geographical Causes of Local Surf Conditions	2-6
HW-01-03-TYPE	Explain the Forces Effecting a Surf Capable Boat Operating in Heavy Weather and Surf	2-7
HW-01-04-ANY	Explain the Relationship Between Navigation and Piloting as it Pertains to Operations in Heavy Seas or Surf	2-8
HW-01-05-ANY	Explain the Procedures and Safety Concerns Related to Recovery of Personnel from the Water in Heavy Seas or Surf	2-9
HW-01-06-ANY	Explain the Heavy Weather Towing Approach and Key Elements Related to Towing in Heavy Weather	2-10
HW-01-07-ANY	Explain the Procedure for Passing the Pump or Other Gear in Heavy Seas	2-11





TASK HW-01-01-ANY Identify the Types of Breaking Seas, their Characteristics and Causes			
References	a. Boat Crew Seamanship Manual, COMDTINST M16114.5 (series), Chapter 12, Section B, and Heavy Weather Addendum, Section A		
	b. Bowditch		
	c. Chapman Piloting		
Conditions  Task performed at any time or place with the aid of visual reference. Trainee must accord task without prompting.			
Standards	The trainee must identify, without error, the types of breaking seas while observi conditions or referring to photo examples.	ng actual	
	Performance Criteria	Completed (Initials)	
State differences between	n deep-water waves and near shore breaking waves.		
2. Identify and describe typ	es of breakers (plunging, spilling, surging).		
3. State causes of each type	of breaker.		
4. State effects of bottom co	ontour, jetties, islands, and obstructions.		
5. State effects of winds on	sea conditions.		
6. Explain the effects of cur	rrent and tidal conditions on breaking seas.		
7. State the definition for the	ne following terms:		
a. Closeout			
b. Window			
c. Saddle d. Shoulder			
e. Low/high side			
2. Zowinga oldo			
Instructor	Date		
Comments	Comments		



TASK HW-01-02-ANY	<b>Explain the Geographical Causes of Local Surf Conditions</b>		
References	a. Boat Crew Seamanship Manual, COMDTINST M16114.5 (series), Heavy Weather Addendum, Section A  Task performed at any time or place with use of visual reference. Trainee must accomplish task without prompting.  The trainee must state, without error, the local surf conditions, causes, areas to be avoided, and preferred training areas.		
Conditions			
Standards			
	Performance Criteria	Completed (Initials)	
1. State description of local	surf conditions.		
2. State causes of each type			
3. State affects of local cont	tour, jetties, islands and obstructions.		
4. State effects of winds.			
5. State effects of local tide	s and currents.		
6. State local surf areas to b	e avoided.		
7. State characteristics (dep	ths, shoaling areas, local names) for typical surf zones in operating area.		
8. State effects of local wea	ther systems and patterns.		
Instructor	Date		
Comments	omments		



TASK HW-01-03-TYPE		Exp	Explain the Forces Effecting a Surf Capable Boat Operating in Heavy Weather and Surf			
Ref	erences	a.	Boat Crew Seamanship Manual, COMDTINST M16114. Addendum, Section E	5 (series), Heavy V	Veather	
Cor	nditions		sk performed at any time or place. Trainee must accomplish a reference.	n task without proi	mpting or use	
Sta	ndards		e trainee must state, without error, the forces effecting a surather and surf.	f capable boat ope	rating in heavy	
		F	Performance Criteria	Completed (Initials)	Boat Type	
1.	State how various wind v the element.	elociti	es effect boat operations with the bow, stern and beam to			
2.	State how different types and beam to the element.	of sea	/swell patterns effect boat operations with the bow, stern			
3.	State effects of aerated wa	ater on	rudders and propellers.			
4.	State effects of shallow w	ater or	n maneuverability.			
5.	State how each type of br the element.	eaker (	effects boat operations with the bow, stern, and beam to			
6.	State effects of meeting s when meeting a breaker.	urf wit	h all power ranges and the effects of excessive speed			
7.	State effects of meeting a quartering, square).	break	er at varying angles to the boat (i.e. bow to, stern to,			
8.	Describe wave avoidance	techni	iques.			
9.	State cause of rollover or	knock	down.			
10.	State cause of pitchpoling	Ţ.				
11.	State cause of broaching.					
12.	State effects of changes in	n cente	er of gravity.			
Inst	ructor			Date		
Cor	nments					



**Comments** 

#### Explain the Relationship Between Navigation and Piloting as it Pertains to Operations in TASK HW-01-04-ANY **Heavy Seas or Surf** References Boat Crew Seamanship Manual, COMDTINST M16114.5 (series), Heavy Weather Addendum, Section E Coast Guard Navigation Standards Manual, COMDTINST M3530.2 (series) **Conditions** Task performed at any time or place. Trainee must accomplish task without prompting or use of a reference. Standards The trainee must explain, without error, the difficulties encountered when piloting/navigating in heavy seas and/or surf. The trainee must explain the methods used to overcome these difficulties that would allow the coxswain to be assured of the boat's position and safety. Completed Performance Criteria (Initials) State the definition for navigation and piloting. State the safe surf working areas by use of ranges, points of reference, or radar ranges and fathometer. 3. State the use of shore-side (tower/beach) lookouts to keep track of the MLB's position. Explain the importance of frequent operational status communications and when a 15-minute position check would be more appropriate than 30 minutes. State the advantages and disadvantages of using the enclosed bridge versus the open bridge in heavy weather. State the effects of aerated water on the accuracy of the fathometer. Instructor Date



		Explain the Procedures and Safety Concerns Related to Recovery of Personn Water in Heavy Seas or Surf	el from the
References		a. Boat Crew Seamanship Manual, COMDTINST M16114.5 (series), Heavy Addendum, Section E	Weather
Conditions  Task performed at any time or place. Trainee must accomplish task without prompting of a reference.		npting or use	
Sta	ndards	The trainee must state, without error, the proper procedure for recovery of person water in heavy weather or surf.	nnel from the
		Performance Criteria	Completed (Initials)
1.	State the importance of ens	suring that proper PPE is used.	
2.	State the importance of set	ting up down-swell and using the appropriate steering station.	
3.	State when to have personn	nel man the well-deck/recess port.	
4.	4. State the appropriate methods for protecting the crew during the recovery phase.		
5.	State the standard coxswain	n/crew communications expected during the recovery phase.	
6.	State first-aid procedures a	nd where to place recovered personnel.	
7.	State the differences between	en recovery techniques used for a conscious vice unconscious person.	
8.	Discuss the use of life ring	s, throw bags, and boat hooks.	
9.	State the risks inherent in r	recovering personnel from the water and methods used to minimize them.	
	Instructor Date		
Comments			



TAS	SK HW-01-06-ANY	<b>Explain the Heavy Weather Towing Approach and Key Elements Related to Heavy Weather</b>	Towing in
Refe	erences	a. Boat Crew Seamanship Manual, COMDTINST M16114.5 (series), Chapter	r 17
Con	ditions	Task performed at any time or place. Trainee must accomplish task without pror of a reference.	npting or use
Standards		The trainee must state, without error, the heavy weather approach.	
		Performance Criteria	Completed (Initials)
1.	State the importance of	setting up down-swell/down-current and using the appropriate steering station.	
2.	State the importance of disabled vessel (set and	being aware of the effect that the wind and seas have on the MLB in relation to the drift).	
3.	State the definition of op	ptimum position, danger area, and maneuvering zone.	
4.	State the procedures for	maintaining safe distance while station keeping (opening and closing).	
5.	State the importance of	crew control and assigning duties.	
6.	State the standard coxsw a. Set-up b. Approach c. Hook-up d. Paying-out e. In tow	vain/crew communications expected during each of the following phases:	
7.	State the different tow ri	igs available and the advantages of each.	
8.	State the causes of shock	k loading and how to correct them.	
9.	State the purpose, deplo	yment procedures and proper use of the drogue as it relates to towing in heavy seas.	
10.	State the risks or safety them.	concerns inherent in taking a vessel in stern tow and methods used to minimize	
Inst	ructor	Date	
Con			



TASK HW-01-07-ANY	Explain the Procedure for Passing the Pump or Other Gear in Heavy Seas		
References	a. Boat Crew Seamanship Manual, COMDTINST M16114.5 (series), Heavy Weather Addendum, Section E		
Conditions	Task performed at any time or place. Trainee must accomplish task without prompting or use of a reference.		
The trainee must state, without error, the proper procedure for passing a pump or other gear heavy seas.			

	Performance Criteria	Completed (Initials)
1.	State the importance of using a proper heavy weather approach to the lowest part of the disabled vessel.	
2.	State proper equipment setup to pass gear in heavy weather including use of tending lines, extra flotation, or messengers.	
3.	State the importance of station keeping until all gear is delivered.	
4.	State the risks inherent in passing equipment in heavy seas and methods used to minimize them.	

Instructor	Date	
Comments	•	





## Section B. Emergency Procedures or Response in Heavy Weather/Surf

#### Introduction

The following are objectives of Division Two:

- **Demonstrate** an understanding of the PPE and safety equipment to be used for heavy weather/surf operations.
- **Demonstrate** an understanding of the emergency procedures for operating in heavy weather/surf.

#### NOTE &

Instructors must ensure that trainees reassess risk at appropriate intervals during evolutions, communicate to the crew, and use the results in decision-making.

#### In this section

This section contains the following tasks:

Task Number	Task	See Page
HW-02-01-ANY	Identify PPE and Safety Equipment for Heavy Weather and Surf Operations	2-15
HW-02-02-ANY	Explain Boat Preparations and Safety Precautions for Operating in Heavy Seas/Surf	2-16
HW-02-03-TYPE	Explain the Procedures to be Taken for a Roll Over or Knockdown	2-17
HW-02-04-ANY	Explain Procedures for Personal Survival if Lost Overboard in a Heavy Weather or Surf Environment	2-18





TASK HW-02-01-ANY Identify PPE and Safety Equipment for Heavy Weather and Surf Operations				
References	a. Rescue and Survival Systems Manual, COMDTINST M10470.10 (series)			
b. Boat Crew Seamanship Manual, COMDTINST M16114.5 (series), Chapter 6				
Conditions	Task performed on the boat at any time. Trainee must accomplish task without prompting or use of a reference.			
Standards	The trainee must state, without error, the safety precautions and safety equipment for heavy weather and surf operations.			
Performance Criteria Completed (Initials)				
State current policies and	references for use of PPE and safety equipment on boats.			
State use of safety belts and seat belts.				
State the attachment points for the safety belts.				
4. State use of helmets.				
5. State use of dry suits, anti-exposure coveralls, hypothermia undergarments, gloves, and other protective garments including requirements for wear of each. Include explanation on the dangers of improper attire, such as cotton clothing, non-waterproof gloves, caps, comfort rings, etc.				
Instructor Date				
Comments				



TASK HW-02-02-ANY		Explain Boat Preparations and Safety Precautions for Operating in Heavy So	eas/Surf	
References		<ul><li>a. Boat Crew Utilization Guidelines, COMDTINST 5312.16 (series)</li><li>b. Appropriate sections of the boat operator handbook.</li></ul>		
Con	ditions	Task performed at any time or place. Trainee must accomplish task without pror of a reference.	npting or use	
Star	ndards	The trainee must state, without error, preparations and safety precautions for ope heavy seas or surf.	rating a boat in	
		Performance Criteria	Completed (Initials)	
1.		lated to conducting safety rounds on the boat prior to heavy weather or surf integrity, typical missile hazards, equipment stowage, systems checks).		
2.	State disabling casualties or surf.	or restrictive discrepancies that would effect decisions to operate in heavy weather		
3.	Explain the need for a bac	ekup radio and alternatives for communication.		
4.	State when it is necessary	to increase the frequency of ops and position checks (i.e. every 15 minutes).		
5.	State maximum training c	onditions.		
6.	State maximum operation	al conditions.		
7.	State affects of fatigue and	d hypothermia on crew.		
8.	State procedures for reduc	ring body stress.		
9.	Explain the boat crew fati	gue standards.		
10.	State concept of offshore	crew management (extended sortie, underway rest/relief alternatives).		
11.	Explain coxswain/surfman points).	n level decision criteria related to prosecution of the mission sortie (i.e. Go-No Go		
12.	State procedures for cond	ucting underway rounds during or after operations in heavy weather or surf.		
13.	Explain how risk assessme	ents are conducted and used to manage inherent risks.		
Instructor Date Comments				
	-			



TASK HW-02-03-TYPE		Explain the Procedures to be Taken for a Rollover or Knoo	ekdown		
Ref	erences	a. Appropriate sections of the boat operator handbook.			
Coı	nditions	Task performed at any time onboard boat. Trainee must accouse of a reference.	Task performed at any time onboard boat. Trainee must accomplish task without prompting or use of a reference.		
Sta	ndards	In response to the instructor, the trainee must, without error, s boat rolls or is caught by the force of a breaker.	state the crew proced	dures when a	
		Performance Criteria	Completed (Initials)	Boat Type	
1.	State the actions of crew	in the event a breaker strikes the boat.			
2.	State force to be expected	d and effects on crew and boat.			
3.	State expected length of	time for rollover or knockdown.			
4.	State immediate coxswai control of the boat.	n/surfman actions including assessment of crew condition and			
5.	State post rollover/knock	down casualty control procedures.			
6.	State likely conditions of	antennas, mast, electronics, windows, and superstructure.			
7.	7. State likely condition of engine room and other compartments.				
8.	State potential damage corollover or knockdown.	ontrol efforts or assistance that may be required as a result of a			
9.	State the effect flooding maneuvering.	in various compartments will have on boat stability and			
10.	State precedence for secu	uring of electrical system breakers if necessary.			
11.	State essential information communicating status.	on to be reported to operational command and alternatives for			
12.	12. State deciding factors (i.e. reassessed risk) to determine whether to proceed with mission or return.				
13.	State potential actions to	be performed by the backup safety boat (when available).			
14.	State immediate dockside	procedures.			
Ins	tructor		Date	<u> </u>	
Coı	Comments				



TASK	TASK HW-02-04-ANY Explain the Procedures for Personal Survival if Lost Overboard in a Heavy Weather or Surf Environment				
Refer	ence	a. Rescue and Survival Systems Manual, COMDTINST M10470.10 (series)			
Cond	itions	Task performed at any time or place. Trainee must accomplish task without prompting or use of a reference.			
Stand	ards	The trainee must state, without error, procedures for personal survival if lost ovarea heavy weather or surf conditions.	erboard in local		
		Performance Criteria	Completed (Initials)		
Discuss local area hazards (i.e. cold water, warm water, ice), rescue response (from where), signaling, and survival choices (i.e. swim to beach, stay with boat).					
2. Explain the techniques for swimming in beach surf areas and hazards that may be encountered (i.e. wave force, rip currents, long shore currents, shoals, debris).					
	3. Explain reasons for use of a beach (shore-side) rescue party including limitations and alternatives to Coast Guard response.				
	Explain emergency procedures (as established locally) and emergency signals to be used by rescue swimmers.				
	5. Discuss notification of other units or agencies, as appropriate, to ensure timely support resources are available. (Potential cross-training opportunity)				
Instru	Instructor Date				
Comn	Comments				



### Section C. Heavy Weather Operations

#### Introduction

The following are objectives of Division Three:

- **Demonstrate** ability to properly plan for heavy weather operations.
- **Demonstrate** ability to operate boat(s) in heavy weather conditions, during various missions.

NOTE Instructors must ensure that trainees reassess risk at appropriate intervals during evolutions, communicate to the crew, and use the results in decision-making.

#### In this section

This section contains the following tasks:

Task Number	Task	See Page
HW-03-01-ANY	Conduct Pre-Mission Sortie Planning for Heavy Weather Operations	2-21
HW-03-02-TYPE	Conduct Safety Rounds, Vessel Systems Checks, and Crew Brief Related to Heavy Weather Operations	2-22
HW-03-03-TYPE	Operate a Boat in Heavy Seas	2-24
HW-03-04-TYPE	Pilot a Boat in Heavy Seas	2-26
HW-03-05-TYPE	Conduct a Person-in-the-Water (PIW) Recovery in Heavy Seas	2-27
HW-03-06-TYPE	Maintain a Stationary Position (Station Keep) Relative to Another Vessel (or Drifting Object) in Heavy Seas*	2-28
HW-03-07-TYPE	Conduct a Direct Pass of Equipment (Drogue, Pump, Radio, etc.) to Another Vessel in Heavy Seas*	2-29
HW-03-08-TYPE	Take a Boat in Tow in Heavy Seas Using Heavy Weather Approach (Bow-to Seas)*	2-30
HW-03-09-TYPE	Take a Boat in Tow in Heavy Seas Using "Stern-to Seas" Approach*	2-32
HW-03-10-TYPE	Counteract Shockloading During Tow of a Vessel in Heavy Seas and Demonstrate Use of a Drogue*	2-34
HW-03-11-TYPE	Shorten Tow in Heavy Seas*	2-36
HW-03-12-TYPE	Tow a Vessel Inbound Across an Inlet or Bar in Heavy Weather*	2-38
HW-03-13-ANY	Illuminate a Bar, Inlet or Surf Zone at Night Using Pyrotechnics from a Boat and from Shore	2-39
HW-03-14-ANY	Conduct a Post-Mission Standdown and Crew Debrief	2-41

<sup>\*</sup> Task must be accomplished with another vessel





TA	TASK HW-03-01-ANY Conduct Pre-Mission Sortie Planning for Heavy Weather Operations				
Ref	Terences	a. Team Coordination Training (TCT), COMDTINST 1541.1 (series)			
		b. Operational Risk Management (ORM), COMDTINST 3500.3 (series)			
Coi	nditions	Task performed prior to getting underway. Trainee must accomplish task without use of a reference.	t prompting or		
Sta	ndards	Trainee must coordinate all mission planning and establish objectives for the sort must lead the shore-side pre-mission safety brief to include all involved crew (i.e watchstander, boat crews, tower watch, beach party).			
		Performance Criteria	Completed (Initials)		
1.	Identify safe operating are	ea and hazards.			
2.	2. Evaluate sea/surf conditions, tides, currents, winds, and anticipated changes that may occur during the sortie.				
3.	Brief crew on sortie object	tives and the area where operations will be conducted.			
4.	4. Brief crew on communications plan encompassing boat-to-boat, boat-to-shore, shore-to-boat. Include discussion of backup radio use and location.				
5.	Brief crew on principle us boats.	se of tower watch/beach party in providing critical information to the participating			
6.	Solicit and evaluate safety	concerns including knockdown/rollover brief and proper use of PPE.			
7.		for sortie using appropriate risk management tools (SPE, GAR or other) from scussion of risk as part of crew briefs.			
Instructor Date					
Co	mments				



# TASK HW-03-02-TYPE Conduct Safety Rounds, Vessel Systems Checks, and Crew Brief Related to Heavy Weather Operations a. Boat Crew Seamanship Manual, M16114.5 (series), Chapter 1 Conditions Task performed on boat prior to leaving protected waters and upon return to protected waters. Trainee must accomplish task without prompting or use of a reference. Standards Trainee must complete a visual safety round prior to getting underway. Trainee must check operation of the boat key systems and brief crew prior to leaving protected waters. Trainee

must coordinate safety rounds of the boat after returning to protected waters.

Completed Performance Criteria **Boat Type** (Initials) Conduct visual inspection through all compartments prior to getting underway (i.e. stowage, missile hazards, watertight integrity, leaks or signs of system problems). Monitor conditions and hazards in operating area. Check engines and controls for full power ahead and astern (both open bridge stations on 47' MLB). Check steering system for full, even rudder control port and starboard (both open bridge stations on 47' MLB). Ensure engineer made round of engine room prior to leaving protected waters. Assign crew positions and check PPE and all safety equipment. Brief crew on methods to be used in moving about the deck, if necessary, and who will authorize movement. Brief crew on natural ranges, points of reference, radar ranges, and depth of water to be Brief crew on knockdown/rollover procedures. Brief crew on procedure in the event the coxswain becomes incapacitated. Brief crew on procedure to remain together and use appropriate signaling device in the event that they have fallen overboard. 12. Check communications with backup safety boat and/or shore party. 13. Coordinate safety rounds of boat after safely returning to protected waters. 14. Ensure clear communications and coordination among crew and other resources. 15. Maintain situational awareness and total control of the boat. 16. Brief crew on risk assessment results.

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Instructor	Date	
Comments	•	



#### TASK HW-03-03-TYPE

#### Operate a Boat in Heavy Seas

#### References

a. Boat Crew Seamanship Manual, COMDTINST M16114.5 (series), Chapter 1, and Heavy Weather Addendum, Section B

#### **Conditions**

Task performed while underway in 8- to 15-foot seas. Trainee must accomplish task without prompting or use of a reference. Trainee must also demonstrate vessel control in high wind conditions with gusts greater than 30 knots. During single engine operations for the simulated engine casualty, the second engine will remain on line.

#### Standards

Task must be accomplished without excessive risk to the boat or crew. Boat must operate with bow to, stern to, and beam to seas while both making way and maintaining stationary position.

	Performance Criteria	Completed (Initials)	Boat Type
1.	Brief crew and assign duties.		
2.	Test engine and steering controls prior to departing protected waters.		
3.	Observe sea conditions and evaluate.		
4.	Identify safe operating area and hazards.		
5.	Avoid breaking waves, if possible.		
6.	Use proper power to meet seas when required.		
7.	Maintain proper communications between coxswain and crew.		
8.	Maintain full control of boat while transiting with bow to seas.		
9.	Maintain full control of boat while transiting with stern to seas.		
10.	Adjust speed and/or angle to the seas to allow a stable, comfortable ride for conditions.		
11.	Maintain full control of boat while station keeping.		
12.	Maintain full control of boat while maneuvering in winds gusting to greater than 30 knots.		
13.	Maintain full control of boat while backing (minimum of 500 yards without yawing more than 10 degrees off heading).		
14.	Maintain full control while operating/maneuvering with one engine, during a simulated engine casualty.		

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TA	SK HW-03-04-TYPE	Pilo	t a Boat in Heavy Seas		
Ref	erences	a.	Boat Piloting and Navigation Standards, COMDTINST 3	3530.3 (series)	
		b.	Boat Crew Seamanship Manual, COMDTINST M16114. Addendum, Section C	5 (series), Heavy V	Veather
Cor	nditions		sk performed while underway in 8- to 15-foot seas. Trainee impting or use of a reference.	must accomplish	task without
Sta	ndards	be	sk must be accomplished without excessive risk to the boat accomplished prior to getting underway or leaving protectest eight miles with all installed navigation equipment used on	d waters. Boat mu	st be piloted at
		I	erformance Criteria	Completed (Initials)	Boat Type
1.	Brief crew and assign du	ties.			
2.	Conduct pre-launch prep tracklines, ranges, and w		s including plotting of dead reckoning positions, is.		
3.	Inspect boat ensuring all	loose g	ear is stowed and watertight integrity is maintained.		
4.	Assign crew positions and check PPE and all safety equipment.				
5.	Observe sea conditions a	nd eva	uate safest course against planned dead reckoning plot.		
6.	Identify safe operating and dangers.	rea and	hazards and pilot boat with adjustments for surrounding		
7.	Consistently determine s	peed o	ver ground and actual course made good.		
8.	Demonstrate awareness of	of the e	ffects of current, swell, and wind on the boats heading.		
9.	Adjust heading and/or sp transit.	eed to	compensate for set and drift as needed to maintain safe		
10.	Integrate information fro	m all a	vailable electronics to consistently determine position.		
11.	11. Demonstrate advantages and shortcomings of all available electronics.				
12.	Promote continuous com	munica	tion and use of crew as integral part of piloting effort.		
13.	Maintain situational awa	reness	and crew control throughout evolution.		
Inst	tructor			Date	I
Cor	nments				



TASK HW-03-05-TYPE References		Conduct a Person-in-the-Water (PIW) Recovery in Heavy Seas					
		a. Boat Crew Seamanship Manual, COMDTINST M16114.5 (series), Heavy Weather Addendum, Section D					
Coi	nditions	Task performed while underway in 8- to 15-foot seas. Trainer prompting or use of a reference. A life-like dummy (Oscar) w training sortie.					
Sta	ndards		Task must be accomplished without excessive risk to the boat or crew. The direct pickup method must be used. Task must be accomplished without injury or excessive risk to the person (life-like dummy) in the water.				
		Performance Criteria	Completed (Initials)	Boat Type			
1.	Brief crew and assign du	nties.					
2.	Station pointer on open s	steering station or nearby coxswain to effectively communicate.		<u> </u>			
3.	Throw life ring if approp	oriate to assist PIW.					
4.	Maneuver boat down sea	a into position for final approach.					
5.	Make ready appropriate	standard retrieval equipment.					
6.	Position crew for recove	ry ensuring safe movement and clear communications.					
7.	Conduct recovery from r	recess port or well-deck only.					
8.	Maneuver boat into safe	position for recovery with regard to crew and PIW.					
9.	Properly use sea and wir	nd conditions in adjusting approach during pickup.					
10.	Complete safe recovery	of PIW.					
11.	Move PIW from recess pelements.	port or well-deck to position of safety and protection from					
12.	Ensure clear communica	tions and coordination among crew.					
13.	Maintain situational awa	reness and total control of the boat throughout evolution.					
Ins	tructor		Date				
Co	mments						
	-						



TA	SK HW-03-06-TYPE	Maintain a Stationary Position (Station Keep) Relative to A Object) in Heavy Seas	nother Vessel (or	Drifting		
Re	ferences	a. Boat Crew Seamanship Manual, COMDTINST M16114. Addendum, Section B	Boat Crew Seamanship Manual, COMDTINST M16114.5 (series), Heavy Weather Addendum, Section B			
Co	nditions	Task performed while underway in 8- to 15-foot seas. Trained prompting or use of a reference. Use of another vessel is prefer suitable drifting object may be substituted.				
Standards		Task must be accomplished without excessive risk to the boat or crew. Boat must maintain stationary position for at least five minutes with limited movement relative to the other vessel (object). Boat must maintain bow/stern to the seas attitude at all times except when lateral movement is necessary. The task must be accomplished without endangering the other vessel (object) and without getting close enough for the vessels to collide.				
		Performance Criteria	Completed (Initials)	Boat Type		
1.	Brief crew and assign dut	ties.				
2.	Identify safe operating ar					
3.	3. Use proper helm and throttle control to establish a safe position near the other vessel.					
4.	4. Use swells and/or wind to assist in maneuvering and holding position.					
5.	5. Use appropriate steering station.					
6.	6. Maintain position within 75 feet of the other vessel or drifting object for 5 minutes with bow/stern to seas.					
7.	7. Ensure clear communications and coordination among crew.					
8. Maintain situational awareness and total control of the boat throughout evolution.						
Ins	Instructor Date					
Co	mments					



<b>TASK HW-03-07-TYPE</b>	Conduct a Direct Pass of Equipment (Drogue, Pump, Radio, etc.) to Another Vessel in Heavy Seas			
References	a. Boat Crew Seamanship Manual, COMDTINST M1611	4.5 (series), Chapter	· 18	
Conditions	Task performed while underway for training in daytime in 8-accomplish task without prompting or use of a reference.	to 15-foot seas. Tra	ainee must	
Standards	Task must be accomplished without excessive risk to the boa accomplished without endangering the other vessel or crew. standoff distance while conducting the direct pass. Control of maintained without loss.	The boat must main	tain a safe	
	Performance Criteria	Completed (Initials)	Boat Type	
Brief crew and assign duti	es.			
2. Evaluate condition of disa	bled boat.			
3. Establish communications	Establish communications with disabled boat.			
4. Set up to pass standard equappropriate.	uipment using messenger, tending, or recovery lines as			
5. Evaluate relative rates of c	lrift.			
6. Identify safest transfer poi	nt on MLB and receiving point on disabled boat.			
7. Make proper approach to o	disabled boat.			
8. Maintain relative position	with drifting vessel.			
9. Ensure crew maintains cor	ntrol of gear during pass to disabled boat.			
10. Ensure clear communications and coordination among crew.				
11. Maintain situational aware	eness and total control of the boat throughout evolution.			
Instructor		Date	1	
Comments				



#### TASK HW-03-08-TYPE

#### Take a Boat in Tow in Heavy Seas Using Heavy Weather Approach (Bow-to Seas)

#### References

- a. Boat Crew Seamanship Manual, COMDTINST M16114.5 (series), Chapter 17
- b. 47' MLB Operator's Handbook, COMDTINST M16114.25 (series), Chapter 6

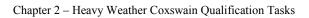
#### **Conditions**

Task performed while underway in 8- to 15-foot seas. Trainee must accomplish task without prompting or use of a reference.

#### Standards

Task must be accomplished without excessive risk to the boat or crew. Boat must take another boat in stern tow and maintain tow for at least fifteen minutes.

	Performance Criteria	Completed (Initials)	Boat Type
1.	Brief crew and assign duties.		
2.	Observe sea conditions and evaluate.		
3.	Establish communications with disabled boat.		
4.	Evaluate condition of disabled vessel.		
5.	Describe evolution and safety procedures to disable vessel.		
6.	Locate towing appendages and evaluate for strength.		
7.	Use appropriate towing equipment for vessel type, vessel size, and sea conditions.		
8.	Evaluate relative rates of drift while station keeping near disabled vessel.		
9.	Make heavy weather approach to disabled vessel while keeping bow square to seas.		
10.	Safely pass towline while station keeping in optimum position relative to vessel.		
11.	Transition into stern tow after towline is safely made fast to the vessel and the crew has control at the tow bitt.		
12.	Smoothly and slowly pay out towline without shockloading.		
13.	Choose angle to the seas (during pay out) to provide safest working conditions for crew and least strain on towing equipment and appendages.		
14.	Adjust length of tow, speed, and final course to give disabled vessel the safest/best ride.		
15.	Maintain consistent communications with disabled vessel to verify status.		
16.	Ensure clear communications and coordination among crew.		





Performance Criteria	Completed (Initials)	Boat Type
17. Maintain situational awareness and total control of the boat throughout evolution.		
18. Tow disabled boat for minimum of fifteen minutes.		

Instructor	Date
Comments	



#### TASK HW-03-09-TYPE

#### Take a Boat in Tow in Heavy Seas Using "Stern-to Seas" Approach

#### References

- a. Boat Crew Seamanship Manual, COMDTINST M16114.5 (series), Chapter 17
- b. 47' MLB Operator's Handbook, COMDTINST M16114.25 (series), Chapter 6

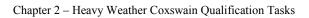
#### **Conditions**

Task performed while underway in 8- to 12-foot seas. Trainee must accomplish task without prompting or use of a reference.

#### Standards

Task must be accomplished without excessive risk to the boat or crew. Boat must take another boat in stern tow and maintain tow for at least fifteen minutes.

	Performance Criteria	Completed (Initials)	Boat Type
1.	Brief crew and assign duties.		
2.	Observe sea conditions and evaluate.		
3.	Establish communications with disabled vessel.		
4.	Evaluate condition of disabled boat.		
5.	Describe evolution and safety procedures to disable vessel.		
6.	Locate towing appendages and evaluate for strength.		
7.	Use appropriate towing equipment for vessel type, vessel size, and sea conditions.		
8.	Evaluate relative rates of drift while station keeping near disabled vessel.		
9.	Make heavy weather approach to disabled boat while keeping stern square to seas.		
10.	Safely pass towline while station keeping in optimum position relative to vessel.		
11.	Transition into stern tow after towline is safely made fast to the vessel and the crew has control at the tow bitt.		
12.	Smoothly and slowly pay out towline without shockloading.		
13.	Choose angle to the seas (during pay out) to provide safest working conditions for crew and least strain on towing equipment and appendages.		
14.	Adjust length of tow, speed, and final course to give disabled vessel the safest/best ride.		
15.	Maintain consistent communications with disabled vessel to verify status.		
16.	Ensure clear communications and coordination among crew.		





Performance Criteria	Completed (Initials)	Boat Type
17. Maintain situational awareness and total control of the boat throughout evolution.		
18. Tow disabled boat for fifteen minutes.		

Instructor	Date
Comments	



#### TASK HW-03-10-TYPE Counteract Shockloading During Tow of a Vessel in Heavy Seas and Demonstrate Use of a Drogue References Boat Crew Seamanship Manual, COMDTINST M16114.5 (series), Chapter 17 **Conditions** Task performed while underway in 8- to 15-foot seas in open waters. Task performed after safely taking a vessel in stern tow.

Standards

Task must be accomplished without excessive risk to the boat or crew. Task will be performed utilizing standard equipment and procedures. Vessel must be towed for at least 15 minutes without excessive strain on the towing appendages or shockloading of the towline.

	Performance Criteria	Completed (Initials)	Boat Type
1.	Evaluate conditions with relation to sea state, towed vessel, towing rig, intended destination, and expected changes or hazards.		
2.	Brief crew and assign duties.		
3.	Brief towed vessel on procedures and intended actions.		
4.	Demonstrate proper method to counteract shockloading based on conditions (i.e. course change, adjust speed, use of a drogue, adjust scope of towline).		
5.	State the appropriate method for passing a drogue and the best time to accomplish it.		
6.	State safety precautions to be observed when selecting and using a drogue.		
7.	Explain where a drogue should be secured when towing in a heavy following sea.		
8.	Explain how a vessel is affected when being towed with a drogue.		
9.	State how to judge the proper scope of drogue line to be used in various sea states.		
10.	State when to have towed vessel recover drogue and what actions will be taken.		
11.	Demonstrate use of a drogue.		
12.	Maintain consistent communications with disabled vessel to verify status.		
13.	Ensure clear communications and coordination among crew.		
14.	Maintain situational awareness and total control of the boat throughout evolution.		
15.	Tow disabled vessel for fifteen minutes.		

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TASK HW-03-11-TYPE	Shorten Tow in Heavy Sea
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References

a. Boat Crew Seamanship Manual, COMDTINST M16114.5 (series), Chapter 17

Conditions

Task performed while underway in 8- to 15-foot seas in open waters.

Task must be accomplished without excessive risk to the boat or crew. Task must be accomplished without allowing either the towed vessel or the MLB to be set over the towline at any time.

	Performance Criteria	Completed (Initials)	Boat Type
1.	Brief crew and assign duties.		
2.	Brief towed vessel on procedures and intended actions.		
3.	Select appropriate heading approximately quartering the seas based on wind conditions.		
4.	Slow both vessels to a stop (no headway).		
5.	Square into the seas with towed vessel down swell.		
6.	Set up to recover towline off the windward quarter.		
7.	Ensure tow bitt is broke and line is tended by crew off the quarter.		
8.	Back square to the seas with appropriate power until desired amount of towline is recovered.		
9.	Ensure bight of towline does not get forward of the coxswain.		
10.	Safely take excess towline aboard to length established by coxswain.		
11.	Make tow bitt and tend towline as necessary.		
12.	Maneuver to transition back into stern tow.		
13.	Explain precautions when towing across a bar/inlet at short tow.		
14.	Maintain consistent communications with disabled vessel to verify status.		
15.	Ensure clear communications and coordination among crew.		
16.	Maintain situational awareness and total control of the boat throughout evolution.		

Instructor	Date	
Comments	•	



TASK HW-03-12-TYPE		Tow a Vessel Inbound Across an Inlet or Bar in Heavy Weather				
Conditions  Task performed while underway in heavy we discretion based on area of operation but not no surf). Trainee must accomplish task without Standards  Task must be accomplished without excessive		a. Boat Crew Seamanship Manual, COMDTINST M16114.5 (series), Chapter 17  Task performed while underway in heavy weather. Maximum sea state will be at command discretion based on area of operation but not to exceed 15 feet (swells or wind generated chop, no surf). Trainee must accomplish task without prompting or use of a reference.				
				Performance Criteria	Completed (Initials)	Boat Type
1.	Brief crew and assign du	nties.				
2.	Brief towed vessel of cro	ossing and safety procedures prior to evolution.				
3.	Explain precautions whe	en towing across a bar/inlet at short tow.				
4.	Discuss risk control alter	rnatives (i.e. safety backup boat, tower manned, beach party).				
5.	Discuss safety concerns overtaking towline).	(i.e. loss of tow, taking on water, MOB, break on the stern, tow				
6.	State and demonstrate appropriate procedures and standard equipment to counteract shockloading when towing a vessel across a bar or inlet.					
7.	Successfully transit bar/inlet with tow.					
8.	Maintain consistent communications with disabled vessel to verify status.					
9.	Ensure clear communica	tions and coordination among crew.				
10.	Maintain situational awa	reness and total control of the boat throughout evolution.				
	ructor		Date			



TASK HW-03-13-ANY	Illuminate a Bar, Inlet or Surf Zone at Night Using Pyrotechnics from a Boat and from Shore
References	a. Boat Crew Seamanship Manual, COMDTINST M16114.5 (series), Chapter 6
Conditions	Task performed while underway during a period of darkness in 8- to 15-foot seas. The MLB (or surf capable boat) may be inside or outside the bar/inlet at the commencement of the operation. Trainee must accomplish task without prompting or use of a reference.
Standards	Task must be accomplished without excessive risk to the boat or crew. The trainee must coordinate the necessary resources to illuminate an area adequately for nighttime MLB (or surf capable boat) operations.

	Performance Criteria	Completed (Initials)
1.	Conduct unit pre-mission brief including safety procedures, risk management issues, position assignments, individual roles and responsibilities.	
2.	Explain the reasons and techniques that may be used for illuminating an area such as a bar, inlet, or surf zone at night in order to improve safety of operations.	
3.	Identify safe operating area and hazards.	
4.	Determine whether backup safety boat or helo support was necessary to ensure safety.	
5.	Coordinate resources to ensure all equipment and personnel were on scene prior to commencement of operations.	
6.	Establish communications between all resources involved including shore-side party.	
7.	Brief crew and assign duties.	
8.	Maintain a stable platform during launch of pyrotechnics for illumination.	
9.	Keep bow or stern square to the seas as appropriate for conditions.	
10.	Coordinate illumination of the operating area to allow clear observations from boat and/or shore.	
11.	Determine if conditions were safe for transit into or through the bar, inlet or surf zone.	
12.	Provide clear, accurate assessment of sea conditions in area and report to unit.	
13.	Use safety backup boat (if applicable) or shore-side safety watch to provide additional information as appropriate.	
14.	Ensure clear communications and coordination among crew and other resources.	
15.	Maintain situational awareness and total control of the boat.	



Performance Criteria	
16. Conduct unit post-mission debrief including lessons learned and recommendations to command related to improvement in unit response strategy for near shore operations.	
Instructor Date	
Comments	



TASK HW-03-14-ANY References		Conduct a Post-Mission Standdown and Crew Debrief		
		a. Team Coordination Training (TCT), COMDTINST 1541.1 (series)		
		b. Operational Risk Management (ORM), COMDTINST 3500.3 (series)		
Conditions		Task performed after underway for heavy weather operations. Trainee must account without prompting or use of a reference.	omplish task	
Stai	ndards	Trainee must lead the shore-side post-mission safety debrief to include all involved crew (i.e. comms watchstander, boat crews, tower watch, beach party).		
		Performance Criteria	Completed (Initials)	
1.	Stand down all unit resou	arces involved with heavy weather operations and ensure safe return to unit.		
2.	Ascertain condition of pa	rticipating crews.		
3.	<ol> <li>Ascertain condition of unit boats and ensure they remained fully mission capable (any disabling or restrictive discrepancies report to command).</li> </ol>			
4.	Ascertain condition of an continued readiness.	y other resources utilized (i.e. tower, vehicles, radios, safety gear) and ensure their		
5.	Coordinate and lead unit	post-mission debrief in appropriate setting.		
6.	Debrief crew, encouragin	ng input from juniors first (least experienced), seniors last (most experienced).		
7.		nunications, lessons learned, safety issues observed, ideas for improvement, and amanship practices and teamwork.		
8.	Provide lessons learned a for near shore operations	and recommendations to command related to improvement in unit response strategy.		
9.	9. Determine if the lessons learned or the actions during the mission warrant further reporting via the boat mishap reporting system.			
10.	Discuss crew's ability to	react to changes in risk levels encountered during debrief.		
Inst	ructor	Date		
Cor	mments			





### Section D. Surf Operations (up to 8 feet)

### Introduction

The tasks in this section are not required for certification as heavy weather coxswain. Unit commands that have surf (up to 8 feet) in their respective areas of responsibility shall use these tasks to prepare coxswains and heavy weather coxswains for missions in or near these areas. Coxswains and heavy weather coxswains shall not attempt operations in surf unless they have demonstrated the proper skills through satisfactory accomplishment of these tasks.

These are the objectives for this section:

- **Demonstrate** ability to properly plan for surf operations.
- **Demonstrate** ability to operate boat(s) in surf conditions up to 8 feet, during various missions.

### NOTE &

Instructors must ensure that trainees reassess risk at appropriate intervals during evolutions, communicate to the crew, and use the results in decision-making.

### In this section

This section contains the following tasks:

Task Number	Task	See Page
HW-04-01-ANY	Conduct Pre-Mission Sortie Planning for Surf Operations	2-45
HW-04-02-TYPE	Conduct Safety Rounds, Vessel Systems Checks, and Crew Brief Related to Surf Operations	2-46
HW-04-03-TYPE	Determine the Position of a Boat in Surf up to 8 Feet	2-48
HW-04-04-TYPE	Maintain Stationary Position ("Station Keep") Using Both the Bow-To and Stern-To Methods in Surf up to 8 Feet	2-50
HW-04-05-TYPE	Transit Outbound on an Inlet or Bar Through Surf up to 8 Feet	2-51
HW-04-06-TYPE	Transit Inbound on an Inlet or Bar Through Surf up to 8 Feet	2-52
HW-04-07-TYPE	Lateral Across a Surf Zone Beam to Surf up to 8 Feet	2-54
HW-04-08-TYPE	Enter and Depart a Beach (Shoal Area) Surf Zone in Surf up to 8 Feet	2-55
HW-04-09-TYPE	Conduct a Person-in-the-Water (PIW) Recovery in Surf up to 8 Feet	2-57
HW-04-10-ANY	Conduct a Post-Mission Standdown and Crew Debrief	2-59





TASK HW-04-01-ANY		Conduct Pre-Mission Sortie Planning for Surf Operations		
References		a. Team Coordination Training (TCT), COMDTINST 1541.1 (series)		
		b. Operational Risk Management (ORM), COMDTINST 3500.3 (series)		
Conditions		Task performed prior to getting underway. Trainee must accomplish task without prompting or use of a reference.		
Standards		Trainee must coordinate all mission planning and establish objectives for the sortie. Trainee must lead the shore-side pre-mission safety brief to include all involved crew (i.e. comms watchstander, boat crews, tower watch, beach party).		
		Performance Criteria	Completed (Initials)	
1.	Identify safe operating area	a and hazards.		
2.	2. Evaluate surf conditions, tides, currents, winds, and anticipate changes that may occur during the sortie.			
3.	Brief crew on sortie object	ives and the area where operations will be conducted.		
	4. Brief crew on communications plan encompassing boat-to-boat, boat-to-shore, shore-to-boat, reporting necessary to safety. Include discussion of backup radio use and location.			
	5. Brief crew on principle use of tower watch/beach party in providing critical information to the participating boats.			
6.	6. Solicit and evaluate safety concerns including knockdown/rollover brief and proper use of PPE.			
Instructor		Date		
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### TASK HW-04-02-TYPE

# Conduct Safety Rounds, Vessel Systems Checks, and Crew Brief Related to Surf Operations

#### References

- a. Boat Crew Seamanship Manual, COMDTINST M16114.5 (series), Chapter 1
- b. Boat Crew Seamanship Manual, COMDTINST M16114.5 (series), Heavy Weather Addendum, Section E

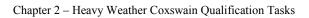
### **Conditions**

Task performed on boat prior to entering and immediately after exiting a surf zone. Trainee must accomplish task without prompting or use of a reference.

#### Standards

Trainee must complete a visual safety round prior to getting underway. Trainee must check operation of the boat key systems and brief crew prior to entering surf zone. Trainee must coordinate safety rounds of the boat after exiting the surf zone.

	Performance Criteria	Completed (Initials)	Boat Type
1.	Conduct visual inspection through all compartments prior to getting underway (i.e. stowage, missile hazards, watertight integrity, leaks or signs of system problems).		
2.	Monitor conditions and hazards in operating area.		
3.	Check engines and controls for full power ahead and astern (both open bridge stations on 47' MLB).		
4.	Check steering system for full, even rudder control port and starboard (both open bridge stations on 47' MLB).		
5.	Ensure engineer made round of engine room prior to entering the surf zone.		
6.	Assign crew positions and check PPE and all safety equipment.		
7.	Brief crew on methods to be used in moving about the deck if necessary and who will authorize movement.		
8.	Brief crew on natural ranges, points of reference, radar ranges, and depth of water to be used.		
9.	Brief crew on knockdown/rollover procedures.		
10.	Brief crew on procedure in the event the surfman becomes incapacitated.		
11.	Brief crew on procedure to remain together and use appropriate signaling device in the event that they have fallen overboard.		
12.	Check communications with backup safety boat and/or shore party.		
13.	Coordinate safety rounds of boat after safely exiting the surf zone.		
14.	Ensure clear communications and coordination among crew and other resources.		





Performance Criteria	Completed (Initials)	Boat Type
15. Maintain situational awareness and total control of the boat.		
16. Brief crew on risk assessment results.		

Instructor	Date	
Comments		
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### TASK HW-04-03-TYPE

### Determine the Position of a Boat in Surf up to 8 Feet

References					

a. Coast Guard Navigation Standards Manual, COMDTINST M3530.2 (series)

**Conditions** 

Task performed while underway in surf up to 8 feet. Trainee must accomplish task without prompting or use of a reference.

Standards

Task must be accomplished without excessive risk to the boat or crew. Using local knowledge, available electronics and seaman's eye, trainee must determine boat's position relative to the closest hazards with an accuracy of 100 yards. Trainee must maintain a safe distance from known hazards at all times. Task must be accomplished while station keeping in the surf zone.

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	Performance Criteria	Completed (Initials)	Boat Type
1.	Brief crew and assign duties.		
2.	Ensure safety rounds and checks were complete.		
3.	Assign crew positions and check PPE and all safety equipment.		
4.	Brief crew on natural ranges, points of reference, radar ranges, and depth of water to be used.		
5.	Identify safe operating area and hazards and pilot boat with adjustments for surrounding dangers.		
6.	Observe sea and surf conditions and evaluate safest course through surf zone.		
7.	Demonstrate awareness of the effects of current, swell, and wind on the boat's heading and movements.		
8.	Avoid breaking waves (when possible) using windows, saddles, and shoulders.		
9.	Choose safe position in which to station keep with relation to depth of water, hazards, and useful ranges.		
10.	Determine boat's position in relation to known hazards using available electronics.		
11.	Demonstrate advantages and shortcomings of all available electronics.		
12.	Determine boat's position using fixed geographical references and seaman's eye.		
13.	Use other available resources to assist in determining position (i.e. tower, beach party, other boats, aircraft, watchstander).		
14.	Pass accurate position to operational command and verify by shore-side plotting.		
15.	Promote continuous communication and use of crew as integral part of piloting effort.		
16.	Maintain situational awareness and total control of the boat.		
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Instructor	Date	
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TASK HW-04-04-TYPE		Maintain Stationary Position ("Station Keep") Using Both the Bow-To and Stern-To Methods in Surf up to 8 Feet				
References		a. Boat Crew Seamanship Manual, COMDTINST M16114 Addendum, Section E	.5 (series), Heavy V	Veather		
Co	nditions	Task performed while underway in surf up to 8 feet. Trainee prompting or use of a reference.	must accomplish ta	sk without		
Standards		Task must be accomplished without excessive risk to the boat or crew. Boat must maintain stationary position for at least five minutes with limited movement. Boat must maintain square bow-to/stern-to attitude at all times except when lateral movement is necessary. When necessary, boat must meet breakers squarely and with enough power to get the boat through/over the wave.				
		Performance Criteria	Completed (Initials)	Boat Type		
1.	Brief crew and assign du					
Identify safe operating area and hazards.  ———————————————————————————————————						
3.	Maintain square bow-to/	stern-to aspect while station keeping in surf.				
4.	Use proper amount of po	ower to meet breakers and hold position.				
5.	Use proper helm, throttle	e commands to achieve a bow/stern position to the seas.				
6.	Use small swells and sur	rf to maneuver and hold position.				
7.	Ensure clear communica	tions and coordination among crew and other resources.				
8. Maintain situational awareness and total control of the boat throughout evolution.						
9. Maintain position for 5 minutes.						
Ins	structor		Date	1		
Co	mments					



TASK HW-04-05-TYPE References		Transit Outbound on an Inlet or Bar Through Surf up to 8 Feet			
		a. Boat Crew Seamanship Manual, COMDTINST M16114.5 (series), Heavy Weather Addendum, Section E			
Coı	nditions		performed while underway in surf up to 8 feet. Trainee pting or use of a reference.	must accomplish ta	sk without
Sta	ndards	throu	must be accomplished without excessive risk to the boat gh the surf zone should be accomplished without meetin nust meet breakers squarely and with enough power to g	g a breaker. When	necessary,
		Per	formance Criteria	Completed (Initials)	Boat Type
1.	Brief crew and assign du	ties.			
2.	Identify safe operating an	ea and ha	zards.		
3.	3. Provide accurate bar report to operational command concerning existing conditions.				
4.	4. Time series to transit through surf zone on the lull.				
5.	Avoid breaking waves (v	when poss	ible) using windows, saddles, and shoulders.		
6.	Use appropriate, safe spe	ed withou	at launching.		
7.	Meet breakers with appro	opriate po	wer.		
8.	Identify the high/low sid	es and ma	neuver toward the low side.		
9.	Use safety backup boat of appropriate.	r shore-si	de safety watch to provide additional information as		
10.	10. Ensure clear communications and coordination among crew and other resources.				
11.	Maintain situational awa	reness and	total control of the boat throughout evolution.		
Ins	tructor			Date	1
Coı	nments				



# TASK HW-04-06-TYPE Transit Inbound on an Inlet or Bar Through Surf up to 8 Feet a. Boat Crew Seamanship Manual, COMDTINST M16114.5 (series), Heavy Weather Addendum, Section E

**Conditions** 

Task performed while underway in surf up to 8 feet. Trainee must accomplish task without prompting or use of a reference.

Standards

Task must be accomplished without excessive risk to the boat or crew. Maximum effort should be taken to keep the boat from being overtaken by a breaker. Boat must be maneuvered in adequate time to avoid a breaker on the stern.

	Performance Criteria	Completed (Initials)	Boat Type
1.	Brief crew and assign duties.		
2.	Identify safe operating area and hazards.		
3.	Provide accurate bar report to operational command concerning existing conditions.		
4.	Time series to transit through surf zone on the lull.		
5.	Avoid breaking waves (when possible) using windows, saddles, and shoulders.		
6.	Use appropriate, safe speed to avoid overtaking the crest of a swell or breaker.		
7.	Evaluate overtaking surf and avoid taking a breaker on the stern.		
8.	Use proper technique and timing to turn and meet breakers squarely when needed.		
9.	Meet breakers with appropriate power.		
10.	Use proper techniques to avoid getting caught on the face of a swell and avoid being caught on a hard chine.		
11.	Identify the high/low sides and maneuver toward the low side.		
12.	Use safety backup boat (if applicable) or shore-side safety watch to provide additional information as appropriate.		
13.	Ensure clear communications and coordination among crew and other resources.		
14.	Maintain situational awareness and total control of the boat throughout evolution.		

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TAS	SK HW-04-07-TYPE	Lateral Across a Surf Zone Beam to Surf up to 8 Feet				
References		a. Boat Crew Seamanship Manual, COMDTINST M16114.5 (series), Heavy Weather Addendum, Section E				
Cor	nditions	Task performed while underway in surf up to 8 feet. Trainee prompting or use of a reference.	must accomplish ta	sk without		
Standards		Task must be accomplished without excessive risk to the boat or crew. Boat must not be overtaken by a breaker on the beam. When necessary, boat must meet breakers squarely and with enough power to get the boat through/over the wave.				
		Performance Criteria	Completed (Initials)	Boat Type		
1.	Brief crew and assign du	ties.				
2.	Identify safe operating a	rea and hazards.				
3.	. Identify and used natural ranges, reference points or radar ranges.					
4.	Avoid breaking waves (v	when possible) using windows, saddles, and shoulders.				
5.	Use appropriate, safe spe	eed.				
6.	6. Evaluate approaching surf, avoid or meet squarely as appropriate.					
7.	Time series and transit o	n the lull.				
8.	3. Use safety backup boat or shore-side safety watch to provide additional information as appropriate.					
9.	Ensure clear communica	tions and coordination among crew and other resources.				
10.	Maintain situational awa	reness and total control of the boat throughout evolution.				
Inst	ructor		Date	l		
Cor	nments					



TASK HW-04-08-TYPE	Enter and Depart a Beach (Shoal Area) Surf Zone in Surf up to 8 Feet			
References	a. Boat Crew Seamanship Manual, COMDTINST M16114.5 (series), Heavy Weather Addendum, Section E			
Conditions  Task performed while underway for in surf up to 8 feet. Trainee must accomplish task with prompting or use of a reference.				
Task must be accomplished without excessive risk to the boat or crew. Boat must no overtaken by a breaker on the beam. When necessary, boat must meet breakers squ with enough power to get the boat through/over the wave. Boat must station keep s the surf zone (if possible).				

Performance Criteria	Completed (Initials)	Boat Type
Brief crew and assign duties.		
2. Identify and evaluate effects of shore currents and rips.		
3. Identify and use natural ranges reference points or radar ranges.		
4. Time series and make shoreward approach turn during lull.		
5. Use appropriate, safe speed without launching or moving over the crest of a swell onto the face.		
6. Evaluate approaching surf, avoid or meet as appropriate.		
7. Meet breakers with appropriate power.		
8. Avoid breaking waves if possible.		
9. Maintain bow/stern aspect in surf using appropriate technique or power.		
10. Consistently monitor depth and do not allow boat to go aground or touch bottom.		
11. Safely hold position inside or shoreward of surf zone (long enough to accomplish a PIW recovery if needed).		
12. Use safety backup boat or shore-side safety watch to provide additional information as appropriate.		
13. Ensure clear communications and coordination among crew and other resources.		
14. Maintain situational awareness and total control of the boat throughout evolution.		

	hapter 2 – Heavy Weather Cox	swain Ouali	fication 7	Γasks
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Instructor			Date	
Comments			•	



TASK HW-04-09-TYPE	Conduct a Person-in-the-Water (PIW) Recovery in Surf up to 8 Feet		
References	a. Boat Crew Seamanship Manual, COMDTINST M16114.5 (series), Heavy Weather Addendum, Section D		
Conditions	Task performed while underway in surf up to 8 feet. Trainee must accomplish task without prompting or use of a reference. A life-like dummy (Oscar) will be used.		
Standards	Task must be accomplished without excessive risk to the boat or crew. The direct pickup method must be used. Task must be accomplished without injury or excessive risk to the person (life-like dummy) in the water.		

	Performance Criteria	Completed (Initials)	Boat Type
1.	Brief crew and assign duties.		
2.	Station pointer appropriately to communicate effectively.		
3.	Throw life ring if appropriate to assist PIW.		
4.	Use lulls, shoulders, windows, and saddles for maneuvering and turns.		
5.	Maneuver boat down sea into position for final approach.		
6.	Make ready appropriate standard retrieval equipment.		
7.	Position crew for recovery ensuring safe movement and clear communications.	- <u>-</u>	
8.	Conduct recovery from recess port or well-deck only.		
9.	Maneuver boat into safe position for recovery with regard to crew and PIW.		
10.	Use lulls between series of breakers for making final approach.		
11.	Ensure boat is stopped and kept square while PIW is recovered.		
12.	Safely recover PIW/Oscar.		
13.	Use safety backup boat or shore-side safety watch to provide additional information as appropriate.		
14.	Ensure clear communications and coordination among crew.		
15.	Maintain situational awareness and total control of the boat throughout evolution.		

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Instructor		Date		
Comments				
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TASK HW-04-10-ANY References		Conduct a Post-Mission Standdown and Crew Debrief				
		a. Team Coordination Training (TCT), COMDTINST 1541.1 (series)				
Cor	nditions	b. Operational Risk Management (ORM), COMDTINST 3500.3 (series)	1 11 .			
Coi	iditions	Task performed after underway for surf operations. Trainee must accomplish tas prompting or use of a reference.	k without			
Standards		Trainee must lead the shore-side post-mission safety debrief to include all involved crew (i.e. comms watchstander, boat crews, tower watch, beach party).				
		Performance Criteria	Completed (Initials)			
1.	Stand down all unit resou	arces involved with surf operations and ensure safe return to unit.				
2.	Ascertain condition of pa	articipating crews.				
3.	Ascertain condition of ur discrepancies reported to	nit boats and ensure they remain fully mission capable (any disabling or restrictive command).				
4.	Ascertain condition of arcontinued readiness.	by other resources utilized (i.e. tower, vehicles, radios, safety gear) and ensure their				
5.	Coordinate and lead unit	post-mission debrief in appropriate setting.				
6.	Debrief crew, encouragir	ng input from juniors first (least experienced), seniors last (most experienced).				
7.		nunications, lessons learned, safety issues observed, ideas for improvement, and ramanship practices or teamwork.				
8.	. Provide lessons learned and recommendations to command related to improvement in unit response strategy for near shore operations.					
9.	Determine if the lessons mishap reporting system.	learned or the actions during the mission warrant further reporting via the boat				
10.	Discuss crew's ability to	react to changes in risk levels encountered during debrief.				
Inst	tructor	Date				
Cor	mments					





# **Chapter 3 Heavy Weather Coxswain Trainee Study Guide**

### Introduction

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

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

### In this chapter

This chapter contains the following sections:

Section	Title	See Page
A	Reading Assignments – Division One	3-3
В	Reading Assignments – Division Two	3-7
С	Reading Assignments – Division Three	3-11
D	Reading Assignments – Division Four	3-15





### Section A. Reading Assignments - Division One

### Introduction

The reading assignments in this section are designed to aid the trainee in developing the knowledge and skills to adequately fulfill the requirement.

### In this section

This section contains the following reading assignments:

### NOTE &

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

Task Number	Reading Assignment	See Page
HW-01-01-ANY	Boat Crew Seamanship Manual,     COMDTINST M16114.5 (series),     Addendum A, Section A	3-4
	Boat Crew Seamanship Manual, COMDTINST M16114.5 (series), Chapter 12, Section B	
HW-01-02-ANY	None Assigned	
HW-01-03-TYPE	Boat Crew Seamanship Manual,     COMDTINST M16114.5 (series),     Addendum A, Section E	3-4
	Boat Crew Seamanship Manual, COMDTINST M16114.5 (series), Chapter 12, Section B	
HW-01-04-ANY	Boat Crew Seamanship Manual,     COMDTINST M16114.5 (series),     Addendum A, Section C	3-5
HW-01-05-ANY	Boat Crew Seamanship Manual,     COMDTINST M16114.5 (series),     Addendum A, Section D	3-5
HW-01-06-ANY	Boat Crew Seamanship Manual, COMDTINST M16114.5 (series), Chapter 17	3-5
HW-01-07-ANY	Boat Crew Seamanship Manual, COMDTINST M16114.5 (series), Heavy Weather Addendum, Section E	3-6



# TASK HW-01-01-ANY: Identify the Types of Breaking Seas, their Characteristics and Causes

1.	There are three basic types of breaking waves. They are, and
2.	By understanding how form and behave, coxswains know what to expect and how to minimize the danger to both boat and crew.
3.	gives the curl of breakers its tremendous force.
4.	is the unobstructed distance over which the wind blows across the surface of the water.
5.	breakers are the most dangerous kind of wave for boat operations.
6.	breakers result from waves of low steepness moving over a gentle sloping ocean floor.
7.	waves result when there is a sudden lack of water ahead of the wave, such as in a steep rise of the ocean floor.
8.	A surging break occurs on very beaches.
TA	ASK HW-01-03-TYPE: Explain the Forces Effecting a Surf Capable Boat Operating in Heavy Weather and Surf
<b>T</b> /	
	Boat Operating in Heavy Weather and Surf  An or current running across a bar builds up a more intense sea than the or
1.	Boat Operating in Heavy Weather and Surf  An or current running across a bar builds up a more intense sea than the or current.
1.	An or current running across a bar builds up a more intense sea than the or current.  currents run parallel to the shore and inside the breakers.  When crossing the current to compensate for the set, a boat may be put into a, i.e., the boat may be forced off
1. 2. 3.	An or current running across a bar builds up a more intense sea than the or current.  currents run parallel to the shore and inside the breakers.  When crossing the current to compensate for the set, a boat may be put into a, i.e., the boat may be forced off course by the current or wind.



### **TASK HW-01-04-ANY:**

# Explain the Relationship Between Navigation and Piloting as it Pertains to Operations in Heavy Seas or Surf

1.	The wise coxswain "" the boat during fair weather so that he or she can acquire the skills to navigate in poor weather without fear or nervous strain.
2.	The primary tool to ensure success in any piloting evolution is
3.	Have the right for every mission.
4.	One of the most under used methods of piloting is
5.	If you have predetermined laid out, you will be able to see at a glance how far left or right of track you are, well before you reach the D.R. position.
6.	and ranges are also critical in computing speed over ground using the three-minute rule and its variations.
7.	If the urgency of the case puts you on a boat heading to sea in heavy weather, take time to your chart so that it is useable.
8.	If a is not below plotting and relaying information to the coxswain, then the coxswain is either below where he cannot the crew, or he is working the radar and cannot the plots.
TA	ASK HW-01-05-ANY: Explain the Procedures and Safety Concerns Related to Recovery of Personnel from the Water in Heavy Seas or Surf
1.	The coxswain will a safe distance from the man overboard and until the opportunity to turn presents itself.
2.	If needed, the turn to run down swell and approach will be planned differently in
3.	Do not allow any crew to go at any time during this evolution.
4.	Ideally, the boat should be with the man overboard at arm's length from the recovery area.
5.	On a CG standard boat, the crew must stay out of the area until the turn is completed, the bow is back into the swell, and the coxswain gives the command.
TA	ASK HW-01-06-ANY: Explain the Heavy Weather Towing Approach and Key Elements Related to Towing in Heavy Weather
1.	Ais deployed from the stern of the towed vessel to help control the towed vessel's motions.
2.	For the drogue towline, use feet ofinch double-braided nylon.
3.	When deploying a drogue, of the tow is more important than
4.	Though optimal to make your approach from down wind and down sea, the and of the distressed vessel may determine the approach.
5.	The most common towing technique is to tow the distressed vessel from of the rescue vessel.
6.	The is the location that allows the crew of the towing vessel to maximize use of the best deck work area on the vessel for passing and working the tow rig.
7.	maintains the position and heading relative to the weather and seas, outside of the danger zone.
8.	To moor an alongside tow safely and skillfully, make the approach into and if possible.



### **TASK HW-01-07-ANY:**

# **Explain the Procedure for Passing the Pump or Other Gear in Heavy Seas**

1.	is necessary to hold position while waiting for a window or a lull, o during recovery of a person in the water.	r holding position prior to and
2.	There are several techniques to deal with breaking seas on the beam.	is still the preferred technique.
3.	In addition to present surf conditions, consider the of the water before entering	ng the surf.
4.	A or is never routine, but always possible in heavy seas.	



### Section B. Reading Assignments - Division Two

### Introduction

The reading assignments in this section are designed to aid the trainee in developing the knowledge and skills to adequately fulfill the requirement..

### In this section

This section contains the following reading assignments:

Task Number	Reading Assignment	See Page
HW-02-01-ANY	Coast Guard Rescue and Survival     Systems Manual, COMDTINST     M10470.10 (series), Chapter 3, Section A	3-9
	Boat Crew Seamanship Manual,     COMDTINST M16114.5 (series),     Addendum A, Section E	
	• 47' Motor Life Boat Operator's Handbook, COMDTINST M16114.25 (series), Chapter 4, Section G	
HW-02-02-ANY	Boat Crew Seamanship Manual, COMDTINST M16114.5 (series), Addendum A, Section E	3-9
	Station Operations Manual, COMDTINST 3100.6 (series), Chapters 5 and 7	
	• Boat Crew Utilization, COMDTINST 5312.16, Enclosures 1 and 2	
HW-02-03-TYPE	Boat Crew Seamanship Manual, COMDTINST M16114.5 (series), Addendum A, Section E	3-10
HW-02-04-ANY	Coast Guard Rescue and Survival     Systems Manual, COMDTINST     M10470.10 (series), Chapter 3, Chapter 6, and Chapter 7	3-10
HW-02-05-TYPE	None Assigned	





# TASK HW-02-01-ANY: Identify PPE and Safety Equipment for Heavy Weather and Surf Operations

1.	When can the uniform be worn under a PF	FD?			
2.	When must a dry suit be worn?				
3.	First layer hypothermia protective clothing	g must moi	sture away from the b	ody.	
4.	The is responsible for	ensuring all require	d equipment is worn a	and worn correctly.	
5.	When seated in a seat, thebelt.	for the	seat must be worn in a	addition to the	safety
T	ASK HW-02-02-ANY:	<u>-</u>	=	ons and Safet ing in Heavy S	-
1.	Pre-surf checks should include. T or F				
	Stow all gear	True	False		
	Engine room	True	False		
	Steering	True	False		
	Tow Line	True	False		
	Search Lights	True	False		
	Throttle and reduction gear	True	False		
2.	communications (haradio is damaged.	ndheld VHF) should	be aboard the boat in	case the antennas are le	ost, or the main
3.	While underway, boats will provide positi intervals not to exceed minutes.	on reports and opera	tions normal reports t	to the station at	
4.	Environmental limits for surf training are greater than NM and		ess than feet, v	vinds less thank	cts, visibility
5.	Maximum underway limits are set at hours for heavy weather.	hours for seas less	than 4 feet, hou	irs for seas greater than	4 feet and
6.	Some factors contributing to fatigue are	loss, expos	ure to	extremes, and motion	on sickness.



# TASK HW-02-03-TYPE: Explain the Procedures to be Taken for a Rollover or Knockdown

1.	A 20-foot breaker can drop	tons of water on the boat, and exert a force of up to	PSI.
2.	Immediately upon re-righting, the next wave correctly	the situation, as you are still in the surf and must tall or you may roll again.	ke quick action to
3.	your crew to ensure the	nat no one was lost overboard or seriously injured.	
4.	Once in, the	Engineer should go below to check for damage.	
5.	The shifting of fuel or	inside a boat can have a great effect on stability and handling	5.
6.	Any situation that places the center	of gravity over the center of can result in a roll.	
7.		sidered in determining whether to continue or return after a roperating condition of engines, condition of electronics, part of backup	
T	ASK HW-02-04-ANY:	Explain Procedures for Persor Lost Overboard in a Heavy We	
		Environment Environment	eatner or Surf
1.	Units may issue either the to unit per	<del>,</del>	
1. 2.		Environment	
	Dry suits alone provide inadequate i	suit or the sonnel. One or the other is required to be issued.	



## Section C. Reading Assignments - Division Three

Introduction

The reading assignments in this section are designed to aid the trainee in developing the knowledge and skills to adequately fulfill the requirement.

In this section

This section contains the following reading assignments:

NOTE &

Task Number	Reading Assignment	See Page
HW-03-01-ANY	None Assigned	
HW-03-02-TYPE	None Assigned	
HW-03-03-TYPE	Boat Crew Seamanship Manual, COMDTINST M16114.5 (series), Addendum A, Section A & Section B	3-13
HW-03-04-TYPE	Boat Crew Seamanship Manual, COMDTINST M16114.5 (series), Addendum A, Section C	3-13
HW-03-05-TYPE	Boat Crew Seamanship Manual, COMDTINST M16114.5 (series), Addendum A, Section D	3-13
HW-03-06-TYPE	None Assigned	
HW-03-07-TYPE	None Assigned	
HW-03-08-TYPE	None Assigned	
HW-03-09-TYPE	None Assigned	
HW-03-10-TYPE	None Assigned	
HW-03-11-TYPE	None Assigned	
HW-03-12-TYPE	None Assigned	
HW-03-13-ANY	None Assigned	
HW-03-14-ANY	None Assigned	





## TASK HW-03-03-TYPE: Operate a Boat in Heavy Seas

1.	The factors that determine the characteristics of wind waves are:, and
2.	The three basic motions that a boat experiences while operating are,, and
3.	is caused by a wave lifting up one side of the boat, rolling under the boat and dropping that side then lifting the other side and dropping it in turn.
4.	is caused when the boat is operating in following seas.
5.	occurs when the boat is running bow into the waves.
6.	Running stern-to in heavy seas requires, as steering corrections must be made the instant you feel the stern of the boat being lifted by the oncoming swell.
7.	Wind affects the boat the swell.
8.	If you keep your bow to the swell of the most predominate force and use proper amounts of for different situations, the boats can be handled without a lot of difficulty.
TA	ASK HW-03-04-TYPE: Pilot a Boat in Heavy Seas
1.	Using or chartlets makes them easy to correct.
2.	If you have ranges laid out, you will be able to see at a glance how far left or right of track you are, well before you reach the dead reckoning position.
3.	Take the time to develop your piloting kit. Coast Guard standard boats are required to have all the necessary in the chart box as per the type manual, but think of this as gear.
T	ASK HW-03-05-TYPE: Conduct a Person-in-the-Water (PIW) Recovery in Heavy Seas
1.	If needed, the turn to run down swell and approach will be planned differently in
2.	The Coxswain will push ahead a distance from the man overboard and until the opportunity to turn presents itself.
3.	Do not allow any of the crew to go at any time during this evolution. It puts them in great danger and the crew's ability to communicate.
4.	Once down swell, turn and avoid getting caught broadside to the surf/swell.
5.	Ideally, the boat should be stopped with the man overboard at from the recovery area.





### Section D. Reading Assignments - Division Four

### Introduction

The reading assignments in this section are designed to aid the trainee in developing the knowledge and skills to adequately fulfill the requirement.

### In this section

This section contains the following reading assignments:

### NOTE &

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

Task Number	Reading Assignment	See Page
HW-04-01-ANY	None Assigned	
HW-04-02-TYPE	None Assigned	
HW-04-03-TYPE	None Assigned	
HW-04-04-TYPE	Boat Crew Seamanship Manual, COMDTINST M16114.5 (series), Addendum A, Section E	3-17
HW-04-05-TYPE	• Boat Crew Seamanship Manual, COMDTINST M16114.5 (series), Addendum A, Section E	3-17
HW-04-06-TYPE	Boat Crew Seamanship Manual, COMDTINST M16114.5 (series), Addendum A, Section E	3-17
HW-04-07-TYPE	Boat Crew Seamanship Manual, COMDTINST M16114.5 (series), Addendum A, Section E	3-17
HW-04-08-TYPE	None Assigned	
HW-04-09-TYPE	None Assigned	
HW-04-10-ANY	None Assigned	





## **TASK HW-04-04 TYPE:**

# Maintain Stationary Position ("Station Keep") Using Both the Bow-To and Stern-To Methods in Surf up to 8 Feet

1.	Never allow the boat to be caught a breaking wave. Either allow it to break before it reaches you, or get to the top it falls on you.
2.	Use only enough to maintain position and counteract the force of the oncoming wave.
3.	Keep the bow asto the seas as possible.
4.	Environmental factors such as surf, wind, or currents can make station-keeping, and good backing skill and proper application of are essential.
T	ASK HW-04-05-TYPE: Transit Outbound on an Inlet or Bar Through Surf up to 8 Feet
1.	The operator should practice wave avoidance by picking a course through the and, if available, minimizing risk to the boat and crew.
2.	Any breakers that cannot be avoided should be taken Slow down and allow your to carry you through. Do not meet breakers at speed or you may plow into the face, or launch off the back, risking injuries or boat damage.
T	ASK HW-04-06-TYPE: Transit Inbound on an Inlet or Bar Through Surf up to 8 Feet
1.	It is preferable to transit the surf during any period that may exist.
2.	The operator should attempt to work through the surf zone by driving through and, thus avoiding the majority of the breakers.
3.	If operating in an area of limiting maneuverability, such as a narrow inlet or bar, the operator may have to rely strictly on the waves and make the transit during periods.
4.	Reducing speed after the wave has already picked up the boat will likely result in a loss of and/or must be reduced before the wave arrives.
5.	a breaker is an advanced emergency procedure which can easily result in personnel injures or boat damage. It is a last resort maneuver for operators.
T	ASK HW-04-07-TYPE: Lateral Across a Surf Zone Beam to Surf up to 8 Feet
1.	In the absence of lulls, great care and patience must be exercised, because you will be dealing with nearly constant surf, and the boat is very in the position.
2.	Speed may be to allow waves to pass ahead of the boat, or to avoid a breaker.
3.	Good, and ability to read several waves back are critical.
4.	Any significant waves that cannot be avoided must be taken





# Appendix A. Task Accomplishment Record for Heavy Weather Coxswain

NOTE &	Instructor should remove this section and place it in the	e trainee's training record.	
TRAINEE NAM	E:	RATE:	
INSTRUCTOR 1	NAME:	RATE:	
POSITION/QU	JALIFICATION CODE TO BE TRAIN	ED FOR:	
NOTE &	Instructors should line through those tasks not applica	ble to this qualification.	

Task	Date Started	Date Completed	Instructor's Initials
HW-01-01-ANY			
HW-01-02-ANY			
HW-01-03-TYPE			
HW-01-04-ANY			
HW-01-05-ANY			
HW-01-06-ANY			
HW-01-07-ANY			
HW-02-01-ANY			
HW-02-02-ANY			
HW-02-03-TYPE			
HW-02-04-ANY			



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



Task	Date Started	Date Completed	Instructor's Initials
HW-04-07-TYPE			
HW-04-08-TYPE			
HW-04-09-TYPE			
HW-04-10-ANY			





# Appendix B. List of Acronyms

Introduction

This appendix contains a list of the acronyms used throughout the handbook.

In this appendix

This appendix contains the following information:

Topic	See Page
List of Acronyms	B-3





ACRONYM	DEFINITION
ANB	AtoN Boat
ASB	Arctic Survey Boat
ATB	Aviation Training Boat
BU	Buoy Boat
BUSL	Buoy Utility Stern Loading
CB-L	Cutter Boat-Large
СВ-М	Cutter Boat-Medium
СВ-ОТН	Cutter Boat Over the Horizon
CB-S	Cutter Boat-Small
DPB	Deployable Pursuit Boat
IMARV	Independent Maritime Response Vessel
LCVP	Landing Craft
MCB	Motor Cargo Boat
MLB	Motor Lifeboat
MSB	Motor Surf Boat
NLB	Nearshore Life Boat
NSB	Non-Standard Boat
ORM	Operational Risk Management
PWB	Port and Waterways Boat
SB	Sailboat
SKF	Skiff
SPC	Special Purpose Craft
SPC (LE)	Law Enforcement Special Purpose Craft
SSL	Standard Support Level
TANB	Trailerable AtoN Boat
TCT	Team Coordination Training
TPSB	Transportable Port Security Boat
UTB	Utility Boat
UTL	Utility Boat Light
UTM	Utility Boat Medium
	·

### Appendix B – List of Acronyms





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