

U.S. Department
of Transportation

United States
Coast Guard



AUXILIARY BOAT CREW
QUALIFICATION GUIDE,
VOLUME II: COXSWAIN

COMDTINST M16794.53



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COMMANDANT INSTRUCTION M16794.53

Subj: AUXILIARY BOAT CREW QUALIFICATION GUIDE, VOLUME II: COXSWAIN

Ref: (a) Auxiliary Operations Policy Manual, COMDTINST M16798.3 (series)
(b) Auxiliary Boat Crew Training Manual, COMDTINST M16794.51 (series)
(c) Boat Crew Seamanship Manual, COMDTINST M16114.5 (series)

1. PURPOSE. This Guide establishes minimum performance standards for qualification as an Auxiliary coxswain on a Coast Guard Auxiliary vessel facility.
2. ACTION. Area and district commanders, commanders of maintenance and logistics commands, and commanding officers of headquarters units shall be sure that the units and Auxiliarists under their command adhere to the provisions of this Guide.
3. DIRECTIVES AFFECTED. The qualification tasks for the coxswain position in Chapter 8 of the Auxiliary Boat Crew Training Qualification Guide--Crewman and Coxswain, COMDTINST M16798.28, may be used through 31 December 2001. After that date, only this Guide may be used to qualify Auxiliary members for the crew member position.
4. DISCUSSION. This Guide is part of the complete revision of the Coast Guard's family of boat crew training and qualification publications, which started with the issue of the Coast Guard Boat Crew Seamanship Manual, COMDTINST M16114.5B, in 1998. This Guide is one of a series of three qualification guides (crew member, coxswain, and personal watercraft (PWC) operator) used in conjunction with the Coast Guard Seamanship Manual and the Auxiliary Boat Crew Training Manual to qualify Auxiliary members in the boat crew program. These publications are being revised to reflect the best and safest practices in the Coast Guard boat fleet. Major changes in this Guide include:

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	a	b	c	d	e	f	g	h	i	j	k	l	m	n	o	p	q	r	s	t	u	v	w	x	y	z
A																										
B		8	10		1																					
C									2		2			2												
D																										
E										2	2	2														
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G																										
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NON STANDARD DISTRIBUTION: Auxiliary National Supply Center, All Auxiliary QEs, All Flotillas

- a. Establishment of the Coast Guard Boat Crew Seamanship Manual, COMDTINST M16114.5 (series) as the primary training reference for the Auxiliary Boat Crew program.
 - b. Separation of the qualification tasks contained in the Auxiliary Boat Crew Training and Qualification Guide—Crewman and Coxswain, COMDTINST M16798.28 into two separate volumes, plus the introduction of a new set of qualification tasks for PWC operator, in a third volume.
 - c. Incorporation of team coordination, operational risk management, and crew efficiency factors into the Auxiliary boat crew program.
 - d. Changing the qualification task numbering system to that used by the active duty program.
 - e. Formatting manual in “information mapping” style for easy reading and reference.
 - f. Establishment of a requirement for an underway check ride prior to certification.
5. PROCEDURES. Auxiliarists who are currently in training under the Auxiliary Boat Crew Training Qualification Guide - Crewman and Coxswain, COMDTINST M16798.28, may continue to use the qualification tasks (chapter eight) in that instruction to until 31 December 2001. Most qualification tasks under the old program can be transferred to the new program using the cross-reference table in Section 1.B.
6. FORMS AVAILABILITY. All forms required by this Guide may be ordered from the Auxiliary National Supply Center.

TERRY M. CROSS
Assistant Commandant for Operations

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	<i>COX-09-04-AUX</i>	<i>None assigned</i>
	<i>COX-09-05-AUX</i>	<i>None assigned</i>

Chapter 1. Introduction

Overview

The Auxiliary 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 as a Coast Guard Auxiliary coxswain. This chapter contains three sections:

Section A: Purpose

Section B: Description of the Guide

Section C: The Qualification Process

Section A. Purpose

A.1. The Qualification Guide

This Qualification Guide is used in conjunction with the Auxiliary Boat Crew Training Manual, COMDTINST M16794.51 (series), and the Boat Crew Seamanship Manual, COMDTINST M16114.5 (series), to train and qualify Auxiliary members to serve as coxswains on Auxiliary vessel facilities.

This Qualification Guide contains a series of tasks that are performed by Auxiliary members to demonstrate that they possess the knowledge and skills required to serve as an Auxiliary coxswain. Upon completion of all tasks in the Qualification Guide, including the dockside oral exam and underway check ride with a Qualification Examiner, the member is **qualified**.

A.2. Training Goal

The goal of the training program is to enable people to learn and perform up to their full potential in Auxiliary surface operations missions. This qualification guide, together with the mentoring process, is designed to lead members through a training program at a learning pace suitable for each individual. The purpose of the boat crew training program is **not** to “weed out” or exclude people. Rather, it is to qualify and certify as many volunteers as possible, without compromising mission integrity and safety.

Section B. Description of the Guide

B.1. Format

The Qualification Guide consists of three volumes:

Volume I: Crew Member

Volume II: Coxswain

Volume III: Personal Watercraft (PWC) Operator

Each volume has three chapters:

Chapter 1: Introduction

Chapter 2: Qualification Tasks

Chapter 3: Study Guide (not included in Volume III: PWC Operator)

B.2. Qualification Tasks

Each qualification task represents a certain skill or piece of knowledge required in the performance of duty as an Auxiliary boat crew member. Collectively, the complete set of tasks represents the minimum performance standard for the position. Each task has seven parts:

Designation

Title

References

Conditions

Standards

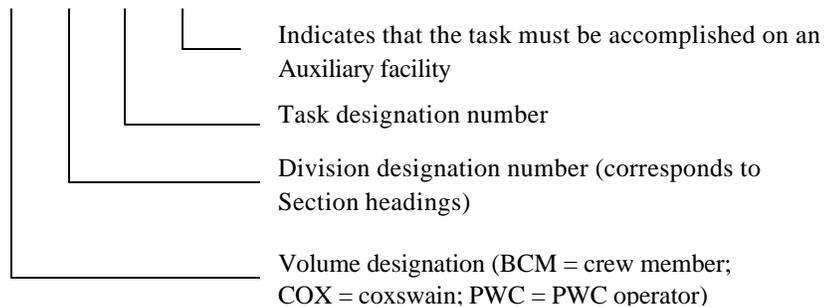
Performance Criteria

Verification

B.2.a. Designation

Each task is designated by a number in the following format:

COX-02-03-AUX



B.2.b. Title

The name and general nature of the task.

B.2.c. Reference

Lists sources of teaching material, background information, and policy. The primary reference for seamanship skills is the Boat Crew Seamanship Manual. Other references shown in this guide are Coast Guard policy or technical directives. However, members are encouraged to use a wide range of references for small boat handling, navigation, and seamanship skills. The Auxiliary Boat Crew Training Manual has an extensive list of references, including the Auxiliary Specialty courses and the Auxiliary Public Education courses.

B.2.d. Conditions

Describes the environment and physical circumstances in which the task must be performed. Any tools or special equipment needed for completion of the task are listed here. The following terms are used in the Conditions and Standards sections of the tasks:

Boat Operations

Slow: Underway and moving ahead at clutch speed or slower.

Underway: Not tied to a pier or float and not anchored or moored.

Visibility

Restricted: Visibility less than ¼ mile.

Clear: All other states of visibility.

Sea Conditions

Calm: Waves less than 1 foot.

Moderate: Waves 1 to 4 feet.

Heavy: Waves 4 feet and over.

B.2.e. 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.

Knowledge Tasks: Candidate must be able to cite, from memory, the required information. Mentors may wish to ask questions concerning particular steps for accomplishment in order to measure the candidate's total comprehension of the subject matter.

Continued on next page

B.2.e. Standards
(Continued)

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

B.2.f. Performance
Criteria

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

To 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.

To Provide a Performance Check: The steps provide a check list which can be used by the mentor to evaluate the trainee's performance.

B.2.g. Verification

The designated mentor must print his/her name, sign and date this line attesting that the candidate successfully performed the task in accordance with the prescribed standards. The mentor does not need to initial or sign each performance criterion.

B.3. **Optional Tasks**

Some tasks are designated as **optional**. Completion of these optional tasks is not required for qualification. Optional tasks are intended to give trainees additional opportunities to learn valuable boat crew skills, either during or after the qualification process.

Optional tasks may not be made mandatory. Further, no additional tasks may be added or required to achieve qualification or certification. See additional guidance regarding certification in Auxiliary Boat Crew Training Manual, Section 4.A.4.

B.4. **Waiverable
Tasks**

Tasks involving certain boat handling evolutions may be waived by the Director, as indicated in the Standards section of the task. The Director may waive these tasks if, given the mission requirements, the nature of the waters, and/or the types of Auxiliary facilities in the district, the evolution is unsafe, inappropriate, or not operationally required.

Section C. The Qualification Process

C.1. Process Summary

For a complete description of the training and qualification process and policies, refer to the Auxiliary Boat Crew Training Manual. The process is summarized below.

A series of **qualification tasks** defines the knowledge and skills required for each boat crew position. Each task describes a certain job skill, and states performance criteria for that skill. For example, a qualification task for the coxswain position is to take a vessel in stern tow. The trainee completes the task by reading the reference material listed, reviewing the skills with a mentor, then practicing the task. When the trainee demonstrates mastery of the task, the mentor signs off the task. When a mentor signs off all tasks for a certain position, the trainee is then scheduled for a check ride for certification with a **Qualification Examiner**, or (**QE**). The QE is an experienced Auxiliary coxswain appointed by the Director of Auxiliary to verify the proper completion of tasks. When the QE signs off the trainees **Check Ride for Certification** task and is satisfied with the trainee's ability, the QE submits a recommendation to the Director, who then **certifies** the member. The member **maintains currency** of certification by periodically meeting annual minimum standards

C.2. Sign-Off Process

The process for learning and signing-off tasks is summarized below:

1. The mentor and trainee develop a work plan. This includes how many tasks will be assigned, whether tasks will be learned individually or in groups, scheduling on-the-water sessions, and so on.
 2. For each task, the mentor and trainee gather necessary reference material for the trainee to study. The trainee should complete the applicable sections of Chapter Three (Study Guide) that apply to the assigned tasks. Through a combination of self-study of written material and hands-on practice, the trainee learns skills required for the task.
 3. The mentor demonstrates the task using procedures outlined in the qualification guide.
 4. The mentor walks the trainee through the task until satisfied that the basic principles are understood.
 5. The trainee practices the task until the mentor is confident that the trainee is able to consistently meet the task standards on his/her own.
 6. When satisfied that the trainee meets the standard, the mentor verifies completion by signing off the task at the bottom of the task page.
-

Continued on next page

C.2. **Sign-Off
Process**
(Continued)

See Chapter 3 of the Auxiliary Boat Crew Training Manual for a complete description of the qualification process.

C.3. **Qualification
Examination**

The final step in the qualification process is examination by a Qualification Examiner (QE). Under the QE's direction, the trainee will complete a dockside oral examination and an underway check ride. Upon successful completion of these tasks, the member is now qualified. The details of this process are described in Chapter 3 of the Auxiliary Boat Crew Training Manual.

Once qualified, the member is then certified by the Director. See Chapter 4 of the Training Manual for a complete description of the certification process.

C.4. **Study Guide**

Chapter Three contains a study guide which may be used in conjunction with completing the qualification tasks in Chapter Two. The study guide contains reading assignments for most tasks, followed by a group of questions. Researching and answering these questions will help prepare the trainee for sign-off sessions with the mentor and the check ride with the QE.

Appendix A RECORD OF COMPLETED TASKS COXSWAIN

Trainee's Name: _____ Member Number: _____

<i>Section A</i>			
<i>Crew Efficiency Factors, Risk Factors and Team Coordination</i>			
Task	Description	QE Initials	Date
COX-01-01-AUX (old ACX-4-1-01)	Perform Twenty-Eight Hours Underway As Crew Member		

<i>Section B</i>			
<i>Boat Characteristics, Stability, and Engineering</i>			
Task	Description	Mentor Initials	Date
COX-02-01-AUX (old ACX-1-2-02)	Describe The Indicators Of Approaching Heavy Weather		
COX-02-02-AUX	Recognize Warning Signs Of An Unstable Vessel		
COX-02-03-AUX (old ACX-2-4-06)	State The Procedures To Follow If Engine Will Not Start		
COX-02-04-AUX (old ACX-2-4-08)	State The Procedures To Follow For Loss Of Electrical Power		
COX-02-05-AUX (old ACX-2-4-07)	State The Procedures To Follow For High Engine Temperature		
COX-02-06-AUX (old ACX-2-4-09)	State The Procedures To Follow For Low/No Engine Oil Pressure		
COX-02-07-AUX (old ACX-2-4-10)	State The Procedures To Follow For Defective Charging System		
COX-02-08-AUX (old ACX-2-4-11)	State The Procedures To Follow For Shaft Vibration		
COX-02-09-AUX (old ACX-2-4-12)	State The Procedures To Follow For A Steering Casualty		
COX-02-10-AUX (old ACX-2-4-03)	Patch A Hole Or Crack Below The Waterline (Optional)		

<i>Section C</i>			
<i>Boat Handling</i>			
Task	Description	Mentor Initials	Date
COX-03-01-AUX	State The Forces That Affect Boat Handling		
COX-03-02-AUX	State The Basic Principles Of Boat Handling		
COX-03-03-AUX (old ACX-1-2-01)	State The Operational Limitations And Characteristics Of The Facility		
COX-03-04-AUX (old ACX-1-2-01 & ACX-3-1-01)	Complete A Pre-Underway Check Off For The Facility		
COX-03-05-AUX (old ACX-2-1-01)	Get The Boat Away From The Dock		
COX-03-06-AUX (old ACX-2-3-02)	Maneuver And Come About In A Narrow Channel (Waiverable by DIRAUX)		
COX-03-07-AUX (old ACX-2-3-01)	Operate The Boat And Apply Its Handling Characteristics In Following, Head, And Beam Seas		
COX-03-08-AUX (old ACX-2-3-03)	Maneuver A Boat In A River Or Narrow Channel (Optional)		
COX-03-09-AUX	Maneuver The Boat Alongside Another Boat With No Way On		
COX-03-10-AUX (old ACX-2-1-02)	Moor The Boat To A Dock		
COX-03-11-AUX (old ACX-2-3-09)	Anchor The Boat		
COX-03-12-AUX (old ACX-2-3-10)	Weigh The Boat's Anchor		

<i>Section D</i>			
<i>Rules of the Road</i>			
Task	Description	Mentor/QE Initials	Date
COX-04-01-AUX (old ACX-1-1-01)	Successfully Complete The Navigation Rules Of The Road Exam		
COX-04-02-AUX (old ACX-1-1-02)	Execute Commonly Used Sound Signals		
COX-04-03-AUX	Set The Proper Navigation Lights For Common Operational Boat Evolutions		

Section E Piloting and Navigation			
Task	Description	Mentor Initials	Date
COX-05-01-AUX (old ACX-1-2-03)	Identify Navigational Publications (Optional)		
COX-05-02-AUX (old ACX-2-3-05 &06)	Obtain A Visual Fix		
COX-05-03-AUX (old ACX- 1-2-06 & ACX-2-3-05)	Determine A Compass Course From True Course		
COX-05-04-AUX (old ACX-3-3-14)	Sketch A Chart Of The Local Operating Area		
COX-05-05-AUX (old ACX-1-2-04 & ACX-2-3-05)	Pilot The Boat Using Dead Reckoning Techniques		
COX-05-06-AUX (old ACX-1-2-05 & ACX-2-3-05)	Pilot A Boat Using “Seaman’s Eye”		
COX-05-07-AUX (old ACX-2-3-07)	Determine The Position Of A Boat Using Radar Ranges And Bearing (If Equipped)		
COX-05-08-AUX (old ACX-2-3-08)	Determine The Position Of A Boat Using GPS/DGPS (If Equipped)		
COX-05-09-AUX (old ACX-2-3-08)	Determine The Position Of A Boat Using LORAN C (If Equipped)		
COX-05-10-AUX (old ACX-1-2-04)	Determine Course To Steer And Speed Over Ground (SOG), Allowing For Set And Drift		
COX-05-11-AUX (old ACX-2-3-04)	River Sailing, (Locks, Dams And Flood Warnings), And Pass Through A Lock (Optional)		

Section F Search and Rescue			
Task	Description	Mentor Initials	Date
COX-06-01-AUX (old ACX-3-3-2)	Organization And Responsibility		
COX-06-02-AUX (old ACX-3-3-02)	Legal Aspects And USCG Policies		
COX-06-03-AUX (old ACX-3-3-01)	SAR Emergency Phases		
COX-06-04-AUX (old ACX-3-3-03)	State The Basic Concepts Related To Search Planning		

Section F Search and Rescue (continued)			
Task	Description	Mentor Initials	Date
COX-06-05-AUX (old ACX-3-3-04)	Plot A Single Unit Expanding Square Search Pattern (SS)		
COX-06-06-AUX (old ACX-3-3-05)	Plot A Single Unit Sector Search Pattern (VS)		
COX-06-07-AUX (old ACX-3-3-06)	Plot A Single Unit Parallel Search Pattern(PS)		
COX-06-08-AUX (old ACX3-3-07)	Plot A Single Trackline Return Search Pattern (TSR)		
COX-06-09-AUX (old ACX3-3-08)	Plot A Barrier Search Pattern (XSB)		
COX-06-10-AUX (old ACX-3-3-13)	Execute A Search Pattern		
COX-06-11-AUX (old ACX-2-2-01)	Obtain Distress Information And Pass To The Controlling Shore Unit		

Section G Rescue and Assistance			
Task	Description	Mentor Initials	Date
COX-07-01-AUX (old ACX-3-1-04 thru ACX-3-1-07)	Determine The Approach And Station Keep		
COX-07-02-AUX (old ACX-2-4-01)	Recover A Person From The Water Using The Direct Pick Up Method		
COX-07-03-AUX	De-Water A Boat Taking On Water Using A Portable Pump (Optional)		
COX-07-04-AUX (old ACX-3-2-01)	Conduct A Basket Hoist To Transfer Personnel To A Helicopter (Optional)		
COX-07-05-AUX (old ACX-2-4-04)	Approach A Burning Boat And Recover Personnel		
COX-07-06-AUX (old ACX-2-4-05)	State The Action To Take If Your Boat Was Aground		

Section H Towing and Salvage			
Task	Description	Mentor Initials	Date
COX-08-01-AUX (old ACX-3-1-03)	State General Towing Safety Precautions		

Section H Towing and Salvage (continued)			
Task	Description	Mentor Initials	Date
COX-08-02-AUX (old ACX-3-1-02)	State The Principle Forces That Effect Small Boat Towing		
COX-08-03-AUX	Inspect A Towline And Associated Hardware		
COX-08-04-AUX (old ACX-3-1-4 thru ACX-3-1-07)	Make Preparations For Taking A Vessel In Tow		
COX-08-05-AUX (old ACX-3-1-04 thru ACX-3-1-07)	Take A Vessel In Stern Tow		
COX-08-06-AUX (old ACX-3-1-08)	Use A Shackle Or Kicker/Skiff Hook Assembly Connection To Take A Vessel In Stern Tow		
COX-08-07-AUX (old ACX-3-1-09)	Take A Boat In Alongside Tow (Waiverable by DIRAUX)		
COX-08-08-AUX (old ACX-3-1-10)	Moor A Disabled Vessel In Tow To A Float Or Pier		
COX-08-09-AUX (old ACX-3-1-01)	Discuss Procedures For Re-Floating A Grounded Vessel Using A Straight Ahead Pull		

Section I Auxiliary Specific Tasks			
Task	Description	Mentor/QE Initials	Date
COX-09-01-AUX (old ACX-3-3-11)	Discuss Auxiliary Patrol Commander's Duties		
COX-09-02-AUX (old ACX-3-3-10)	Coordinate A Simulated Multi-Unit Event (Optional)		
COX-09-03-AUX (old ACX-4-1-02)	Complete Administrative Tasks (Reports, Orders, Etc.)		
COX-09-04-AUX	Perform A Night Navigation And Piloting Exercise (Waiverable by DIRAUX)		
COX-09-05-AUX	Dockside Oral Examination		
COX-09-06-AUX	Underway Check Ride		

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Appendix B - AUXILIARY COXSWAIN TASK CROSS REFERENCE

OLD TASK	NEW TASK
ACX-1-1-01	COX-04-01-AUX
ACX-1-1-02	COX-04-02-AUX
ACX-1-2-01	COX-03-03-AUX COX-03-04-AUX
ACX-1-2-02	COX-02-01-AUX
ACX-1-2-03	COX-05-01-AUX
ACX-1-2-04	COX-05-05-AUX COX-05-10-AUX
ACX-1-2-05	COX-05-06-AUX
ACX-1-2-06	COX-05-03-AUX
ACX-1-3-01	COX-03-04-AUX
ACX-2-1-01	COX-03-05-AUX
ACX-2-1-02	COX-03-10-AUX
ACX-2-2-01	COX-06-11-AUX
ACX-2-3-01	COX-03-07-AUX
ACX-2-3-02	COX-03-06-AUX
ACX-2-3-03	COX-03-08-AUX
ACX-2-3-04	COX-05-11-AUX
ACX-2-3-05	COX-05-02-AUX COX-05-03-AUX COX-05-05-AUX COX-05-06-AUX
ACX-2-3-06	COX-05-02-AUX
ACX-2-3-07	COX-05-07-AUX
ACX-2-3-08	COX-05-08-AUX COX-05-09-AUX
ACX-2-3-09	COX-03-11-AUX
ACX-2-3-10	COX-03-12-AUX
ACX-2-4-01	COX-07-02-AUX
ACX-2-4-02	None
ACX-2-4-03	COX-02-10-AUX
ACX-2-4-04	COX-07-05-AUX
ACX-2-4-05	COX-07-06-AUX
ACX-2-4-06	COX-02-03-AUX
ACX-2-4-07	COX-02-05-AUX
ACX-2-4-08	COX-02-04-AUX
ACX-2-4-09	COX-02-06-AUX
ACX-2-4-10	COX-02-07-AUX
ACX-2-4-11	COX-02-08-AUX
ACX-2-4-12	COX-02-09-AUX
ACX-3-1-01	COX-03-04-AUX COX-08-09-AUX
ACX-3-1-02	COX-08-02-AUX
ACX-3-1-03	COX-08-01-AUX
ACX-3-1-04	COX-07-01-AUX COX-08-04-AUX COX-08-05-AUX

Continued on next page

Appendix B: Task Cross Reference

OLD TASK	NEW TASK
ACX-3-1-05	COX-07-01-AUX COX-08-04-AUX COX-08-05-AUX
ACX-3-1-06	COX-07-01-AUX COX-08-04-AUX COX-08-05-AUX
ACX-3-1-07	COX-07-01-AUX COX-08-04-AUX COX-08-05-AUX
ACX-3-1-08	COX-08-06-AUX
ACX-3-1-09	COX-08-07-AUX
ACX-3-1-10	COX-08-08-AUX
ACX-3-2-01	COX-07-04-AUX
ACX-3-3-01	COX-06-03-AUX
ACX-3-3-02	COX-06-01-AUX COX-06-02-AUX
ACX-3-3-03	COX-06-04-AUX
ACX-3-3-04	COX-06-05-AUX
ACX-3-3-05	COX-06-06-AUX
ACX-3-3-06	COX-06-07-AUX
ACX-3-3-07	COX-06-08-AUX
ACX-3-3-08	COX-06-09-AUX
ACX-3-3-09	None
ACX-3-3-10	COX-09-02-AUX
ACX-3-3-11	COX-09-01-AUX
ACX-3-3-12	None
ACX-3-3-13	COX-06-10-AUX
ACX-3-3-14	COX-05-04-AUX
ACX-4-1-01	COX-01-01-AUX
ACX-4-1-02	COX-09-03-AUX
None	COX-02-02-AUX
None	COX-03-01-AUX
None	COX-03-02-AUX
None	COX-03-09-AUX
None	COX-04-03-AUX
None	COX-07-03-AUX
None	COX-08-03-AUX
None	COX-09-04-AUX
None	COX-09-05-AUX

Chapter 2 Coxswain Qualification Tasks

Overview

In this chapter

This chapter contains nine sections:

Section	Title	See Page
A	Crew Efficiency Factors, Risk Factors and Team Coordination	2-2
B	Boat Characteristics and Stability	2-4
C	Boat Handling	2-15
D	Rules of the Road	2-34
E	Boat Piloting and Navigating	2-39
F	Search and Rescue	2-53
G	Rescue and Assistance	2-69
H	Towing and Salvage	2-80
I	Auxiliary Specific Tasks	2-96

Section A. Crew Efficiency Factors, Risk Factors and Team Coordination

Introduction

The following are the objectives of Section A:

- **Demonstrate** ability to perform duties as a certified Auxiliary Crew Member
-

In this section

This section contains one task:

Task Number	Task	See Page
COX-01-01-AUX	Perform Twenty-Eight Hours Underway As Crew Member	2-3

Name: _____

Task COX-01-01-AUX

Task **Perform Twenty-Eight Hours Underway As Crew Member**

References Auxiliary Operations Policy Manual, COMDTINST M16798.3 (series)

Conditions Performed while underway as a certified crew member on ordered patrols on an Auxiliary facility or Coast Guard boat.

Standards Certified crew members must show proof of **either** having satisfactorily completing at least 28 hours underway on patrols, **or** may be exempted from the 28-hour requirement by showing proof of a current merchant marine deck officer or operator license.

Completed

Performance Criteria

- _____ 1. Member completed 28 hours underway on ordered patrols as certified Auxiliary or Coast Guard boat crew member, **or**
- _____ 2. Member holds current merchant marine deck officer or operator license.

Accomplished **QE signature** _____ **Date** _____

Section B. Boat Characteristics, Stability and Engineering

Introduction

The following are objectives of Section B:

- **Identify** and **Describe** the indicators of approaching weather.
 - **Recognize** the signs of an unstable vessel.
 - **Recognize** and **Perform** casualty control for various casualties.
-

In this section

This section contains ten tasks:

Task Number	Task	See Page
COX-02-01-AUX	Describe The Indicators Of Approaching Heavy Weather	2-5
COX-02-02-AUX	Recognize Warning Signs Of An Unstable Vessel	2-6
COX-02-03-AUX	State The Procedures To Follow If Engine Will Not Start	2-7
COX-02-04-AUX	State The Procedures To Follow For Loss Of Electrical Power	2-8
COX-02-05-AUX	State The Procedures To Follow For High Engine Temperature	2-9
COX-02-06-AUX	State The Procedures To Follow For Low/No Engine Oil Pressure	2-10
COX-02-07-AUX	State The Procedures To Follow For Defective Charging System	2-11
COX-02-08-AUX	State The Procedures To Follow For Shaft Vibration	2-12
COX-02-09-AUX	State The Procedures To Follow For A Steering Casualty	2-13
COX-02-10-AUX	Patch A Hole Or Crack Below The Waterline (Optional)	2-14

Name: _____

Task COX-02-01-AUX

Task	Describe the Indicators of Approaching Heavy Weather
References	Chapter 12, Boat Crew Seamanship Manual, COMDTINST M16114.5 (series)
Conditions	Performed at any time ashore, at the dock or afloat. Trainee must accomplish task without prompting or use of a reference.
Standards	In response to the mentor, the trainee must describe the indicators of approaching heavy weather.

Completed

Performance Criteria

- _____ 1. Listed six of the fifteen indicators of deteriorating weather.
- _____ 2. Listed four of the ten indicators of impending precipitation.
- _____ 3. Listed three of the seven indicators of impending strong winds.

Accomplished **Mentor signature** _____ **Date** _____

Name: _____

Task COX-02-02-AUX

Task	Recognize Warning Signs of an Unstable Vessel
References	Chapter 9, Boat Crew Seamanship Manual, COMDTINST M16114.5 (series)
Conditions	Task should be performed underway observing other vessels in varying wind and sea conditions and when loaded differently (fishing vessels rigged/not rigged).
Standards	The visual observation must note: Listing, set high or low in the water, trimmed by bow or stern, and wind/sea conditions. Compare your boat's reaction to sea conditions with the other boat(s).

Completed

Performance Criteria

- _____ 1. Determined if other vessel is listing.
- _____ 2. Determined if other vessel is riding high or low in the water.
- _____ 3. Determined if down by the bow, the stern, or even.
- _____ 4. Determined wind and sea conditions.
- _____ 5. Stated the causes and effects of the following:
- a. free surface effect
 - b. downflooding
 - c. topside icing
 - d. free communication with the sea

Accomplished **Mentor signature** _____ **Date** _____

Name: _____

Task COX-02-03-AUX

Task	State the Procedures to Follow if Engine Will Not Start
References	Chapter 8, Boat Crew Seamanship Manual, COMDTINST M16114.5 (series)
Conditions	Performed at any time ashore, at the dock or afloat. Trainee must accomplish task without prompting or use of a reference.
Standards	In response to the mentor, the trainee must describe or perform the procedures to follow if engine will not start.

Completed

Performance Criteria

1. Anchor made ready.

2. Informed controlling authority of situation and location, and stated the importance of keeping the controlling authority updated.

3. Described the causes if engine fails to turn over.

4. Stated corrective action to take when the engine fails to turn over.

5. Described the causes if engine turns over but fails to start.

6. State the corrective action to take if the engine turns over but fails to start.

Accomplished **Mentor signature** _____ **Date** _____

Name: _____

Task COX-02-06-AUX

Task **State the Procedures to Follow for Low/No Engine Oil Pressure**

References Chapter 8, Boat Crew Seamanship Manual, COMDTINST M16114.5 (series)

Conditions Performed at any time ashore, at the dock or afloat. Trainee must accomplish task without prompting or use of a reference.

Standards In response to the mentor, the trainee must describe or perform the procedures to follow for low/no engine oil pressure.

Completed **Performance Criteria**

- _____ 1. Anchor made ready.
- _____ 2. Informed controlling authority of situation and location, and stated the importance of keeping the controlling authority updated.
- _____ 3. Described the causes for low or no engine oil pressure.
- _____ 4. Stated the corrective action to take for low or no oil pressure.

Accomplished **Mentor signature** _____ **Date** _____

Name: _____

Task COX-02-08-AUX

Task	State the Procedures to Follow for Shaft Vibration
References	Chapter 8, Boat Crew Seamanship Manual, COMDTINST M16114.5 (series)
Conditions	Performed at any time ashore, at the dock or afloat. Trainee must accomplish task without prompting or use of a reference.
Standards	In response to the mentor, the trainee must describe or perform the procedures to follow for shaft vibration.

Completed

Performance Criteria

- _____ 1. Anchor made ready.
- _____ 2. Informed controlling authority of situation and location. Stated importance of keeping them informed.
- _____ 3. Described the causes of a shaft vibration.
- _____ 4. Stated the corrective action to take for shaft vibration.

Accomplished **Mentor signature** _____ **Date** _____

Name: _____

Task COX-02-09-AUX

Task	State the Procedures to Follow for a Steering Casualty
References	Chapter 8, Boat Crew Seamanship Manual, COMDTINST M16114.5 (series)
Conditions	Performed at any time ashore, at the dock or afloat. Trainee must accomplish task without prompting or use of a reference.
Standards	In response to the mentor, the trainee must describe or perform the procedures to follow for a steering casualty.

Completed

Performance Criteria

- _____ 1. Anchor made ready.
- _____ 2. Informed controlling authority of situation and location, and stated the importance of keeping the controlling authority updated.
- _____ 3. Described the causes of a steering casualty.
- _____ 4. Stated the corrective action to take for a steering casualty.

Accomplished **Mentor signature** _____ **Date** _____

Name: _____

Task COX-02-10-AUX

Task	Patch a Hole or Crack Below the Waterline (Optional)
References	Chapter 18, Boat Crew Seamanship Manual, COMDTINST M16114.5 (series)
Conditions	Performed onboard an Auxiliary facility, either moored or underway. Trainee must accomplish task without prompting or use of a reference.
Standards	In response to the mentor, the trainee must demonstrate flooding control procedures for a simulated hole or crack below the boat's waterline. Only items onboard the facility may be used.

Completed

Performance Criteria

- _____ 1. Notified controlling shore unit of situation.
- _____ 2. Pointed out appropriate patching and plugging materials onboard the boat that could be used to effect emergency repairs to a damaged hull.
- _____ 3. Simulated plugging or patching a hole below the waterline using materials and tools onboard the boat.
- _____ 4. Simulated patching a crack below the waterline using materials and tools onboard the boat.
- _____ 5. Explained the technique of using a collision mat, (large piece of canvas or plastic).
- _____ 6. Explained the technique of using a box patch.
- _____ 7. Simulated using onboard pump(s)
- _____ 8. Secured affected compartments (closing doors and hatches) if flooding can not be controlled. Made preparations to abandon boat.
- _____ 9. Stated the importance of keeping the controlling authority updated.

Accomplished **Mentor signature** _____ **Date** _____

Section C. Boat Handling

Introduction

The following are objectives for Section C:

- **Define** and **state** the principal forces that affect boat handling.
 - **Handle** a boat proficiently during various common maneuvers.
 - **State** the different safety aspects involved in boat handling.
-

In this section

This section contains twelve tasks:

Task Number	Task	See Page
COX-03-01-AUX	State The Forces That Affect Boat Handling	2-16
COX-03-02-AUX	State The Basic Principles Of Boat Handling	2-17
COX-03-03-AUX	State The Operational Limitations And Characteristics Of The Facility Operating On	2-18
COX-03-04-AUX	Complete A Pre-Underway Check Off For The Facility	2-20
COX-03-05-AUX	Get The Boat Away From The Dock	2-23
COX-03-06-AUX	Maneuver And Come About In A Narrow Channel (Waiverable by DIRAUX)	2-24
COX-03-07-AUX	Operate The Boat And Apply Its Handling Characteristics In Following, Head And Beam Seas	2-25
COX-03-08-AUX	Maneuver A Boat In A River Or Narrow Channel (Optional)	2-27
COX-03-09-AUX	Maneuver The Boat Alongside Another Boat With No Way On	2-29
COX-03-10-AUX	Moor The Boat To A Dock	2-30
COX-03-11-AUX	Anchor The Boat	2-31
COX-03-12-AUX	Weigh The Boat's Anchor	2-33

Name: _____

Task COX-03-01-AUX

Task	State the Forces that Affect Boat Handling
References	Chapters 9 and 10, Boat Crew Seamanship Manual, COMDTINST M16114.5 (series)
Conditions	Performed at any time ashore, at the dock or afloat. Trainee must accomplish task without prompting or use of a reference.
Standards	In response to the mentor, the trainee must state the forces that affect boat handling as outlined in the steps below.

Completed

Performance Criteria

- _____ 1. Stated how weight and buoyancy affect a vessel's stability.
- _____ 2. Stated how any change in the center of gravity of a boat affects stability when weight is added, subtracted or shifted.
- _____ 3. Stated how static force affects stability.
- _____ 4. Stated how dynamic force affects stability.
- _____ 5. Stated what effects the environmental forces of wind, seas and current have on the horizontal motion of a vessel.
- _____ 6. Stated the effect of running with a current.
- _____ 7. Stated the effect of running against a current.
- _____ 8. Stated the effect of leeway on a boat.
- _____ 9. Stated how cavitation of a boat's propeller affects boat handling.
- _____ 10. Stated the effects of dynamic propeller thrust.
- _____ 11. Stated the effects of "unequal blade thrust."

Accomplished **Mentor signature** _____ **Date** _____

Name: _____

Task COX-03-02-AUX

Task	State the Basic Principles of Boat Handling
References	Chapter 10, Boat Crew Seamanship Manual, COMDTINST M16114.5 (series)
Conditions	Performed at any time ashore, at the dock, or afloat. Trainee must accomplish task without prompting or use of a reference.
Standards	In response to the mentor, the trainee must state the basic principles of boat handling listed in the steps below.

Completed

Performance Criteria

- _____ 1. Stated the reaction of the boat with sternway on and the rudder amidships.
- _____ 2. Stated the reaction of the boat with sternway on and the rudder left.
- _____ 3. Stated the reaction of the boat with headway on and the rudder left.
- _____ 4. Stated the reaction of the boat with headway on and the rudder right.
- _____ 5. Stated the reaction of the boat when commencing forward motion from no way on.
- _____ 6. Stated the reaction of a twin screw boat, when the port screw is placed ahead and the starboard screw in reverse.
- _____ 7. Stated the reaction of a twin screw boat, with the port screw ahead and the starboard screw in reverse and turning the wheel to starboard.
- _____ 8. Stated the reaction of a twin screw boat, with the port screw ahead and the starboard screw in reverse, and turning the wheel to port.

Accomplished **Mentor signature** _____ **Date** _____

Name: _____

Task COX-03-03-AUX

Task **State the Operational Limitations and Characteristics of the Facility**

References Chapter 8, Boat Crew Seamanship Manual, COMDTINST M16114.5 (series)
Chapter 1, Auxiliary Operations Policy Manual, COMDTINST M16798.3 (series)
Facility's Capacity Plate

Conditions Performed at any time ashore, at the dock or afloat. Trainee must accomplish task without prompting. Use of a reference is allowed.

Standards In response to the mentor, the trainee must state the policy for operational limitations and review the operational limitations and specific characteristics of the facility being trained on.

Completed

Performance Criteria

- _____ 1. Stated the policy requirements for the Director and active duty unit commanders to establish facility operational limitation standards.
- _____ 2. Stated the policy requirements and responsibility of the coxswain concerning the facility's published operational limitations.
- _____ 3. Stated the operational limitations for the facility established by the Director and/or operational commander. They must include the following:
- a. Minimum crew size for the facility.
 - b. Maximum sea and wind state the facility can operate in.
 - c. Maximum size and weight of a vessel that can be towed.
 - d. Maximum sea conditions a vessel can be towed in.
 - e. Distance offshore allowed during operations, (if applicable).

Task COX-03-03-AUX (Continued)

4. Stated the facility's specific limitations, including:

- a. Maximum number of personnel that can be carried on the facility.
- b. Maximum load capacity.
- c. Maximum speed of the facility.
- d. Maximum range at cruising speed, in nautical miles.

1

Accomplished **Mentor signature** _____ **Date** _____

Name: _____

Task COX-03-04-AUX

Task	Complete a Pre-Underway Check-Off for the Facility
References	Chapter 1, Appendix 1-C, Boat Crew Seamanship Manual, COMDTINST M16114.5 (series)
Conditions	Performed at the dock AND on the facility. Trainee must accomplish task with out prompting, and may use the pre-underway check-off sheet as a reference. A diagram showing the location of equipment on the facility may also be used.
Standards	In response to the mentor, the trainee must conduct a pre-underway check-off for the facility to locate and check proper condition, operation, and stowage of required equipment. Routine mechanical, electrical and engine checks will also be done. The pre-underway check-off should be performed using an up-to-date prepared checklist for the facility that covers the specific performance criteria listed below.

Completed

Performance Criteria

- _____ 1. Verified appropriate Coast Guard patrol orders have been issued.
- _____ 2. Confirmed with the operational commander or controlling authority the working radio frequency to be used for the mission and number of POB.
- _____ 3. Located and checked the proper condition, operation, and stowage of the following equipment.
- _____ a. Personal Floatation Devices (PFD's).
 - _____ b. Fire extinguishers.
 - _____ c. Visual distress signals.
 - _____ d. Anchors and anchor lines.
 - _____ e. Dewatering device.
 - _____ f. Watch or clock.
 - _____ g. Boarding ladder (or other means of boarding).
 - _____ h. Kicker/skiff hook (if required).
 - _____ i. Binoculars.
 - _____ j. Blanket.

Task COX-03-04-AUX (Continued)

- _____k. Fenders.
- _____l. Towline.
- _____m. Bridle.
- _____n. Heaving lines.
- _____o. Mooring lines.
- _____p. Searchlight.
- _____q. Spare navigation light bulbs.
- _____r. Boat hook.
- _____s. Navigation lights
- _____t. Fathometer or Sounding Pole.
- _____u. Charts, navigation plotting instruments.
- _____v. Tools and spare parts.
- _____w. First aid kit.
- _____x. Sound producing device.
- _____y. Current Rules of the Road publication.

_____ 4. Completed the required mechanical, electrical, and engine checks listed below:

- _____a. Oil level (if applicable).
- _____b. Water level (if applicable).
- _____c. Reduction gear oil level (if applicable).
- _____d. Fuel system, especially fuel shut off valves.
- _____e. Ventilation system (if applicable).

_____ 5. Conducted crew briefing:

- _____a. Purpose of mission.
- _____b. Any special circumstances concerning the mission.
- _____c. Working radio frequency to be used for the mission.
- _____d. Expected weather and sea conditions.
- _____e. Crewmembers in proper uniform and equipment.

Task COX-03-04-AUX (Continued)

- _____ f. Confirmed crewmembers are physically capable to perform mission.
- _____ g. Discussed and encouraged team coordination. Used the SPE, GAR, or other model to conduct a risk assessment of the patrol. Incorporated risk elements into pre-underway crew briefing.
- _____ h. Discussed the policy on wearing jewelry. Crew is in compliance.

_____ 6. Performed the following to prepare facility for getting underway:

- _____ a. Secured all openings.
- _____ b. Secured boat for sea, (no loose gear).
- _____ c. Displayed proper flags and signboards.
- _____ d. Opened sea suction (if applicable)
- _____ e. Ventilated the engine compartment before starting engine(s).
- _____ f. Started the engine(s)
- _____ g. Engine/marine gear oil pressure satisfactory (if equipped)
- _____ h. Checked cooling water overboard discharge.
- _____ i. Energized the electrical and electronic systems (bilge pump, etc.).
- _____ j. Engine/marine gear oil pressure satisfactory (if equipped).
- _____ k. Disconnected shore tie(s).

_____ 7. Tested the following electronic equipment (if equipped):

- _____ a. VHF - FM radio(s).
- _____ b. Loud hailer.
- _____ c. Fathometer.
- _____ d. Loran C/GPS/DGPS.
- _____ e. RADAR

_____ 8. Tested engine controls in forward and reverse with lines still attached to the dock. Noted the reaction for both directions.

Accomplished **Mentor signature** _____ **Date** _____

Name: _____

Task COX-03-06-AUX

Task **Maneuver and Come About in a Narrow Channel**

References Chapter 10, Boat Crew Seamanship Manual, COMDTINST M16114.5 (series)

Conditions Performed while underway on a facility in calm sea conditions. This task will be done within the confines of a harbor entrance, river, or other channel with limited maneuverability. Trainee will operate the facility and do all maneuvers. Trainee must accomplish task without prompting or use of a reference.

Standards In response to the mentor, the trainee must station-keep and turn the facility 180 degrees within the confines of a narrow channel, harbor entrance or inlet in accordance with the steps below. Trainee must perform the task without endangering personnel or the facility.

NOTE: May be waived by the Director in accordance with Section 1.B.4.

Completed

Performance Criteria

- _____ 1. Briefed the crew on procedures to be used and their duties.
- _____ 2. Anticipated and explained the predicted effects of the wind and current on the maneuvering of the facility.
- _____ 3. Maintained position (station keeping) in the center of the channel for a least three minutes.
- _____ 4. Brought the facility around in the channel from a “facing the current” (up current) position to a “with the current” (down current) position.
- _____ 5. Brought the facility around in the channel from a “with the current” (down current), position to a “facing the current” (up current), position.

Accomplished **Mentor signature** _____ **Date** _____

Name: _____

Task COX-03-07-AUX

Task **Operate the Boat and Apply its Handling Characteristics in Following, Head and Beam Seas**

References Chapter 10, Boat Crew Seamanship Manual, COMDTINST M16114.5 (series)

Conditions Performed during daylight in moderate sea conditions on a facility that is within its operational limitations for the conditions. If the above conditions are not available, seas may be created by another boat. Trainee must accomplish task without prompting or use of a reference.

Standards In response to the mentor, the trainee must operate the facility in following, head and beam seas, accomplishing the steps below without endangering personnel or the facility.

Completed

Performance Criteria

- _____ 1. Stated the Coast Guard's policy on Auxiliary facilities operating in surf.
- _____ 2. Stated why the facility should not routinely exceed 90% of its speed capability.
- _____ 3. Briefed crew on the following:
- a. Cautioned crew to maintain a firm hold at all times and keep knees slightly flexed to help absorb shock.
 - b. Discussed escape routes and procedures to follow in an emergency.
- _____ 4. Operated the facility in following seas:
- a. Discussed corrective procedures to take if the boat begins surfing.
 - b. Defined the term broaching and stated its primary cause.

Task COX-03-07-AUX (Continued)

- c. Operated the facility properly, maintaining the same speed as the seas and on the back of the swell. Avoided jumping over or riding on the front of a wave.
- d. DID NOT run directly before a swell. Kept heading at a slight angle, (not more than 15 degrees), to the swell, (seas on the quarter).
- e. Slowed down when necessary to allow overtaking seas to pass beneath the boat.

_____ 5. Operated the facility in head seas:

- a. Approached head seas at a slight angle, prepared to straighten boat out quickly to prevent a large wave from pushing boat broadside.
- b. Adjusted boat's speed as necessary to keep propellers in the water.
- c. Timed process through the seas so that the boat's bow raised to meet swells.
- d. Used only enough power to break through the crest; then cut back on power to let the boat fall on the backside of the swell.
- e. Boat's speed increased as swell approached, (lifts bow), and avoided flying boat through the wave crest.

_____ 6. Operated facility in a beam seas:

- a. Avoided being broadside to heavy swells.
- b. Tacked facility across sea at a slight angle in a zigzag fashion and made each track as long as possible.
- c. Warned the crew when reversing course, then allowing boat to lose headway, applied hard rudder and applied power.

Accomplished **Mentor signature** _____ **Date** _____

Name: _____

Task COX-03-08-AUX

Task **Maneuver a Boat in a Narrow Channel in a River (Optional)**

References Chapter 10, Boat Crew Seamanship Manual, COMDTINST M16114.5 (series)

Conditions Performed underway on a facility, during daylight, in good weather and calm seas conditions. This task will be accomplished while transiting parallel to the banks or a narrow channel or seawall where bank cushion and bank suction may be expected. Trainee must accomplish task without prompting or use of a reference.

Standards In response to the mentor, the trainee must use the boat's propeller, rudder action, and handling characteristics in combination with the existing current velocity and direction to obtain the best advantage in controlling and maneuvering the facility.

Completed

Performance Criteria

- _____ 1. Defined bank cushion and stated its effect on boat handling/maneuvering.
- _____ 2. Defined bank suction and stated its effect on boat handling/maneuvering.
- _____ 3. Stated when "bank cushion" and "bank suction" would be the strongest and weakest when turning in a sharp bend in a narrow channel.
- _____ 4. Maneuvered the facility in a narrow channel under the following conditions:
- a. straight channel
 - b. passing another boat
 - c. turning in a bend, against the current (middle of channel)
 - d. turning in a bend, going with the current

Task COX-03-08-AUX (Continued)

- e. hugging the point
- f. staying in the bend
- g. staying on bend side, middle of channel

Accomplished **Mentor signature** _____ **Date** _____

Name: _____

Task COX-03-09-AUX

Task **Maneuver the Boat Alongside Another Boat with No Way On**

References Chapter 16, Boat Crew Seamanship Manual, COMDTINST M16114.5 (series)

Conditions Performed while underway on a facility in calm sea conditions. Trainee must accomplish task without prompting or use of a reference.

Standards In response to the mentor, the trainee must maneuver the facility in accordance with the steps below.

Completed

Performance Criteria

- _____ 1. Brief the crew and assigned duties.
- _____ 2. Established communications with the other boat.
- _____ 3. Briefed personnel on the other boat.
- _____ 4. Rigged fenders. Walking fender available if needed.
- _____ 5. Made approach to other boat.
- _____ 6. Brought Auxiliary facility alongside other boat.
- _____ 7. Maneuvered Auxiliary facility away from other boat.

Accomplished **Mentor signature** _____ **Date** _____

Name: _____

Task COX-03-10-AUX

Task **Moor the Boat to a Dock**

References Chapter 10, Boat Crew Seamanship Manual, COMDTINST M16114.5 (series)

Conditions Performed underway on a facility in calm wind and sea conditions. Trainee must be at the helm as the Coxswain and must accomplish task without prompting or use of a reference.

Standards In response to the mentor, the trainee must moor the facility to a dock in accordance with the steps below. Coxswain trainee must give verbal commands for all line handling procedures.

Completed

Performance Criteria

- _____ 1. Briefed the crew on procedures to be used and their duties.
- _____ 2. Stated the expected effects of the wind and current on mooring the facility.
- _____ 3. Approached the dock slowly at an angle.
- _____ 4. Directed crew to secure the after bow spring line, (#2 line), when the bow was alongside the intended mooring point on the dock. Applied full rudder away from the dock, stern sprung, or pivoted toward dock.
- _____ 5. Directed crew to secure stern line, (#4 line), then the remaining lines, (#1 line and #3 line).
- _____ 6. Ensured that all mooring lines were adjusted for expected tidal changes and wave/wake action.

Accomplished **Mentor signature** _____ **Date** _____

Name: _____

Task COX-03-11-AUX

Task **Anchor the Boat**

References Chapter 10, Boat Crew Seamanship Manual, COMDTINST M16114.5 (series)

Conditions Performed underway on a facility in calm wind and sea conditions during daylight. Trainee must be at the helm as the Coxswain and accomplish task without prompting or use of a reference.

Standards In response to the mentor, the trainee must anchor the facility in accordance with the steps below. Coxswain trainee must give verbal commands for all line handling procedures. Tasks must be accomplished without endangering personnel or the boat. Facility must be anchored with room to swing.

Completed

Performance Criteria

- _____ 1. Selected and plotted position for placement of the anchor noting the depth of water, bottom contours, and characteristics.
- _____ 2. Briefed crew on anchoring procedure. Assigned duties and reviewed hand signals to be used.
- _____ 3. Piloted boat to selected position.
- _____ 4. Described expected effects of wind and current on anchoring the boat.
- _____ 5. Determined approximate length of the scope, (rode), by checking depth of water, adding boat's freeboard at the bow and room available for the boat to swing.
- _____ 6. Directed crew to rig anchor and prepare for anchoring.
- _____ 7. Approached anchorage keeping boat headed into the wind and/or current.
- _____ 8. Checked boat's headway at the charted anchoring position.

Task COX-03-11-AUX (Continued)

- _____ 9. Directed crew to LOWER (NOT THROW) the anchor to the bottom with a round turn on bitt/cleat.
- _____ 10. Backed boat down away from the anchor with the crew slowly paying out the anchor line until proper scope reached.
- _____ 11. Directed crew to make anchor line fast to bitt/cleat with a round turn and figure eights.
- _____ 12. Fixed actual position using three visual or radar bearings.
- _____ 13. Checked water depth using fathometer, lead line, or sounding pole.
- _____ 14. Ensured anchor was not dragging.
- _____ 15. Set anchor watch, briefed watch on responsibilities.

Accomplished **Mentor signature** _____ **Date** _____

Name: _____

Task COX-03-12-AUX

Task **Weigh the Boat's Anchor**

References Chapter 10, Boat Crew Seamanship Manual, COMDTINST M16114.5 (series)

Conditions Performed underway on a facility in calm wind and sea conditions during daylight. Trainee must accomplish task without prompting or use of a reference.

Standards In response to the mentor, the trainee must weigh the anchor of the facility in accordance with the steps below. Coxswain trainee must give verbal commands for all line handling procedures. Tasks must be accomplished without endangering personnel or boat.

Completed

Performance Criteria

- _____ 1. Briefed crew on anchoring procedure to be used. Defined their duties and what hand signals will be used, emphasize safety.
- _____ 2. Moved boat ahead slowly, using engine(s).
- _____ 3. Directed crew to take up slack in the anchor line as boat moved forward to prevent fouling screw(s). Faked the anchor line out of the way IMMEDIATELY or rewound on reel.
- _____ 4. Attempted to retrieve anchor when anchor line was tending up and down (vertical).
- _____ 5. If the anchor failed to break free:
 - a. Directed crewmember to make the anchor line fast around the forward bitt/cleat.
 - b. Maneuvered boat ahead a few feet after anchor line made fast.
 - c. If anchor not freed, placed engine(s) ahead slow and maneuvered in a wide circle until anchor freed.
- _____ 6. Made up and secured all gear.

Accomplished **Mentor signature** _____ **Date** _____

Section D. Rules of the Road

Introduction

The following are the objectives of Section D:

- **Display competence** in the knowledge and use of the International-Inland Rules of the Road
 - **Demonstrate** knowledge of various sound signals used while underway
 - **Demonstrate** knowledge of various light configurations used while underway.
-

In this section

This section contains three tasks.

Task Number	Task	See Page
COX-04-01-AUX	Successfully Complete The Navigation Rules Of The Road Exam	2-35
COX-04-02-AUX	Execute Commonly Used Sound Signals	2-36
COX-04-03-AUX	Set The Proper Navigation Lights For Common Operational Evolutions	2-38

Name: _____

Task COX-04-01-AUX

Task **Successfully Complete the Navigation Rules of the Road Exam**

References Navigation Rules Inland-International, COMDTINST M16672.2 (series)
Auxiliary Boat Crew Training Manual, COMDTINST M16794.51 (series)

Conditions Task must be performed at any time in a manner prescribed by the above references and the course or examination issuing authority.

Standards Trainee must receive a passing score (90%) on the Auxiliary Navigation Rules Examination—Initial Qualification (closed book), **or** pass the Coast Guard Institute’s NAVRULS End of Course Test or Deck Watch Officer Examination, **or** provide documentation of a current merchant marine deck officer or operator license. A QE must verify by checking one of the below and signing the task.

Completed

Performance Criteria

- _____ 1. Passed the Auxiliary Navigation Rules Examination—Initial Qualification, **or**
- _____ 2. Passed the Coast Guard Institute’s NAVRULS End of Course Test or Deck Watch Officer Examination, **or**
- _____ 3. Provided documentation of a current Coast Guard merchant marine deck officer or operator license.

Accomplished **QE signature** _____ **Date** _____

Name: _____

Task COX-04-02-AUX

Task

Execute Commonly Used Sound Signals

References

Chapter 11, Boat Crew Seamanship Manual, COMDTINST M16114.5 (series)
Part D, Navigation Rules Inland-International, COMDTINST M16672.2 (series)

Conditions

Performed by manually operating the boat's horn or fog signal. May be done at the dock or underway, day or night, in any weather. Signals under international and/or inland rules should be demonstrated depending on which rules normally apply in the trainee's operating area.

Standards

In response to the mentor, the trainee must demonstrate the proper sound signals as listed below.

NOTE: When performing the task, care must be exercised to avoid confusing boats underway in the immediate vicinity.

Completed

Performance Criteria

- _____ 1. Activated horn manually.
- _____ 2. Demonstrated short blast.
- _____ 3. Demonstrated prolonged blast.
- _____ 4. Sounded signal for action or intention and answer for a boat altering course to starboard or passing port to port.
- _____ 5. Sounded signal for action or intention and answer for a boat altering course to port or passing starboard to starboard.
- _____ 6. Sounded signal for operating astern propulsion.
- _____ 7. Sounded signal for overtaking and passing another boat on the starboard side.
- _____ 8. Sounded signal for overtaking and passing another boat on the port side.

Task COX-04-02-AUX (Continued)

- _____ 9. Sounded signal for avoiding collision, or when failing to understand the action/intention of another boat (danger signal).
- _____ 10. Sounded signal for power driven boat underway with way on in restricted visibility.
- _____ 11. Sounded signal for power driven boat underway with no way on in restricted visibility.
- _____ 12. Sounded signal for boat not under command or with restricted maneuverability in restricted visibility.
- _____ 13. Sounded signal for boat with stern tow in restricted visibility.
- _____ 14. Sounded signal for boat being towed astern in restricted visibility.
- _____ 15. Sounded signal for boat at anchor in restricted visibility.

Accomplished **Mentor signature** _____ **Date** _____

Name: _____

Task COX-04-03-AUX

Task **Set the Proper Navigation Lights for Common Operational Boat Evolutions**

References Chapter 11, Boat Crew Seamanship Manual, COMDTINST M16114.5 (series)
Part C, Navigation Rules Inland-International, COMDTINST M16672.2 (series)

Conditions Task may be done at the dock or underway, day or night, on an Auxiliary Facility. Light displays should be for either international or inland rules, depending on which rules normally apply in the trainee’s operating area. Trainee must accomplish task without prompting or use of a reference.

Standards In response to the mentor, the trainee must energize and set the proper lights in accordance with the steps listed below. Lights must be proper for the situation, size and type of boat they are displayed on.

Completed

Performance Criteria

- _____ 1. Proper light displayed for vessel underway.
- _____ 2. Proper light displayed for vessel anchored.
- _____ 3. Proper lights displayed or explained for towing a vessel astern.
- _____ 4. Properly lights displayed or explained for towing a vessel alongside.

Accomplished **Mentor signature** _____ **Date** _____

Section E. Piloting and Navigation

Introduction

The following are the objectives of Section E:

- **Identify** and **state** the use of various common navigational references.
 - **Demonstrate** the ability to pilot using installed electronic navigational equipment.
 - **Demonstrate** the ability to pilot a boat using dead reckoning techniques
 - **Demonstrate** a knowledge of the local operating area
-

In this section

This section contains eleven tasks:

Task Number	Task	See Page
COX-05-01-AUX	Identify Navigational Publications (Optional)	2-40
COX-05-02-AUX	Obtain A Visual Fix	2-41
COX-05-03-AUX	Determine A Compass Course For True Course	2-43
COX-05-04-AUX	Sketch A Chart Of The Local Operating Area	2-44
COX-05-05-AUX	Pilot The Boat Using Dead Reckoning Techniques	2-45
COX-05-06-AUX	Pilot A Boat Using “Seaman’s Eye”	2-46
COX-05-07-AUX	Determine The Position Of A Boat Using Radar Ranges And Bearing (If Equipped)	2-47
COX-05-08-AUX	Determine The Position Of A Boat Using GPS/DGPS (If Equipped)	2-48
COX-05-09-AUX	Determine The Position Of A Boat Using LORAN C (If Equipped)	2-49
COX-05-10-AUX	Determine Course To Steer And Speed Over Ground (SOG) Allowing For Set And Drift	2-50
COX-05-11-AUX	River Sailing (Locks, Dams And Flood Warnings) And Pass Through A Lock (Optional)	2-52

Name: _____

Task COX-05-01-AUX

Task	Identify Navigational Publications (Optional)
References	Chapter 14, Boat Crew Seamanship Manual, COMDTINST M16114.5 (series)
Conditions	Performed at any time ashore, at the dock, or afloat. Trainee must accomplish task without prompting or use of a reference.
Standards	In response to the mentor, the trainee must identify the navigational publications listed below and state their purpose.

Completed

Performance Criteria

- _____ 1. Identified Navigation Rules International-Inland, COMDTINST M16672.2 (series), and stated its use.
- _____ 2. Identified Coast Pilot and stated its use. Was familiar with local entries.
- _____ 3. Identified Light List and stated its use. Was familiar with local entries.
- _____ 4. Identified Local Notice to Mariners and stated its use.
- _____ 5. Identified Tide Tables (where applicable) and stated its use. Was familiar with local entries.
- _____ 6. Identified Tidal Current Tables (where applicable) and stated its use. Was familiar with local entries.

Accomplished **Mentor signature** _____ **Date** _____

Name: _____

Task COX-05-02-AUX

Task **Obtain a Visual Fix**

References Chapter 14, Boat Crew Seamanship Manual, COMDTINST M16114.5 (series)

Conditions Performed underway in fair weather, in calm or moderate seas. The mentor will provide the trainee with at least three visual objects from which to determine compass bearings. Bearings may be determined using either a hand bearing compass or by sighting over the boats's navigational compass. A nautical chart covering the operating area, pencil and paper, parallel rules/plotter, and a deviation table are necessary to perform task. Trainee must accomplish task without prompting or use of a reference.

Standards In response to the mentor, the trainee must show proficiency in correctly obtaining and plotting a visual fix on a chart.

Completed

Performance Criteria

- _____ 1. Obtained compass course and selected objects from which to determine magnetic bearings for plotting from the mentor.
- _____ 2. Plotted the compass course and labeled "course" along the top of the line and "speed" below it.
- _____ 3. Determined the compass bearing of the first object.
- _____ 4. Converted the compass bearing to magnetic bearing.
- _____ 5. Repeat steps 3 and 4 for remaining objects.
- _____ 6. Plotted the magnetic bearing of both objects on the chart, labeled the bearings with the time along the top of the lines and bearing below the lines.
- _____ 7. Labeled the fix where the LOPs intersect with a dot enclosed by a circle with the time followed with the letters "VIS FIX" to the side of the circle at an angle clear of the course line.

Task COX-05-02-AUX (Continued)

_____ 8. Verified depth by fathometer.

Mentor signature_____ **Date**_____

Accomplished

Name: _____

Task COX-05-03-AUX

Task

Determine Compass Course From True Course

References

Chapter 14, Boat Crew Seamanship Manual, COMDTINST M16114.5 (series)
Auxiliary facility's current deviation table

Conditions

Performed at any time ashore, at the dock, or afloat. Given a nautical chart of the local operating area, the facility's deviation table, and 3 true courses, by the mentor, the trainee must show proficiency in chart plotting. Trainee must accomplish task without prompting or use of a reference.

Standards

In response to the mentor, the trainee must, without error, convert three given TRUE courses into COMPASS courses and plot on a chart.

Completed

Performance Criteria

1. Stated the magnetic variation for the local area found on the compass rose.
2. Identified and stated the use of the facility's deviation table.
3. Plotted and labeled true courses identified by the mentor.
4. Determined magnetic course for each true course.
5. Determined compass courses for each magnetic course.
6. Correctly plotted and labeled each compass course on the chart.

Accomplished

Mentor signature _____ **Date** _____

Name: _____

Task COX-05-04-AUX

Task	Sketch a Chart of the Local Operating Area
References	Local charts and personal knowledge of the local area
Conditions	Performed at any time ashore, at the dock, or afloat. Sketch on a plain sheet of paper. Trainee must accomplish task without prompting or use of a reference.
Standards	In response to the mentor, the trainee must sketch and label from memory a chart of the local operating area. The sketch does not have to be to scale but should approximate relative distances and shapes. The mentor shall approve the area to be sketched.

Completed

Performance Criteria

- _____ 1. Sketched and labeled the local operating area.
- _____ 2. Sketched prominent coast lines noting the following, as appropriate:
- a. Points
 - b. Capes
 - c. Harbors and local basins
 - d. Landmarks
- _____ 3. Sketched major hazards to navigation, (wrecks, rocks, shoals, bars, submerged pilings, fishnet areas, etc.).
- _____ 4. Sketched shipping and boat channels.

Accomplished **Mentor signature** _____ **Date** _____

Name: _____

Task COX-05-05-AUX

Task **Pilot The Boat Using Dead Reckoning Techniques**

References Chapter 14, Boat Crew Seamanship Manual, COMDTINST M16114.5 (series)

Conditions Performed underway on a facility during daylight, in calm to moderate weather conditions, using only the installed compass, speed/engine RPM curve, stop watch, navigational kit, and charts found on the facility. The course must be at least 3 miles long with at least two turns. All courses and speeds to turn points are to be given to the trainee by the mentor. Trainee must accomplish task without prompting or use of a reference.

Standards In response to the mentor, the trainee must perform tasks. Turn points must be determined using the most accurate method available to the boat. All plotting on charts must be done using proper chart notation and symbols. All locations must be verified by taking a simultaneous sounding using the fathometer, if available. All locations should be verified by the mentor.

Completed

Performance Criteria

- _____ 1. Compass course laid out on the chart indicating predicted turns.
- _____ 2. ETA to first turn point predicted and facility piloted to the first predicted position using only boat's compass, speed/engine rpm curve and stop watch.
- _____ 3. ETA to next turn point predicted with course and speed corrected to make good the second position.
- _____ 4. Facility piloted to the next predicted position using only boat's compass, speed/engine rpm curve and stop watch.
- _____ 5. Step 4 and 5 repeated until voyage was completed.

Accomplished **Mentor signature** _____ **Date** _____

Name: _____

Task COX-05-06-AUX

Task **Pilot a Boat Using “Seaman’s Eye”**

References Chapter 14, Boat Crew Seamanship Manual, COMDTINST M16114.5 (series)

Conditions Task must be performed while underway, in calm weather conditions. Task should run over a course provided by the mentor of at least 3 nautical miles and containing at least 8 course changes, using only a local chart of the area, local knowledge of the area, aids to navigation, terrestrial landmarks, and “Seaman’s Eye.” Visibility must be at least 1 nautical mile. Trainee must accomplish the task without prompting or use of any reference.

Standards Course must be steered directly without wandering or requiring any stopping or backtracking in order to stay on course or within any channels. At no time may the vessel or crew be put in danger.

Completed

Performance Criteria

- _____ 1. Laid out and labeled the courses on the chart.
- _____ 2. Cleared the pier/dock and started on course.
- _____ 3. Identified terrestrial landmark or aids to navigation to be used to steer to first turn point.
- _____ 4. Steered boat directly to first turn point.
- _____ 5. Turned boat upon reaching first turn point.
- _____ 6. Identified terrestrial landmark or aids to navigation to be used to steer to second turn point.
- _____ 7. Steered boat directly to next turn point.
- _____ 8. Repeated steps 5-7 until voyage was completed.

Accomplished **Mentor signature** _____ **Date** _____

Name: _____

Task COX-05-07-AUX

Task **Determine the Position of a Boat Using Radar Ranges and Bearings (If Equipped)**

References Chapter 14, Boat Crew Seamanship Manual, COMDTINST M16114.5 (series)

Conditions Performed underway in calm to moderate weather, using installed radar, compass, fathometer, navigation kit, and charts found on the facility; chart should be a harbor chart or some other large scale chart.

Standards In response to the mentor, the trainee must perform tasks. Correctly plot positions within one tenth of a nautical mile. All plotting should be done using proper chart notation and symbols. If available, all positions are to be verified by taking a simultaneous sounding using the fathometer.

Completed

Performance Criteria

- _____ 1. Activated and properly tuned radar set.
- _____ 2. Determined position of the boat underway, but with no way on.
- _____ 3. Determined position of the boat underway at slow speed.
- _____ 4. Determined position of the boat using ranges.
- _____ 5. Determined position of the boat using bearings.
- _____ 6. Verified all positions by using the fathometer to check soundings, (if equipped).

Accomplished **Mentor signature** _____ **Date** _____

Name: _____

Task COX-05-08-AUX

Task **Determine the Position of a Boat Using GPS/DPGS (If Equipped)**

References Chapter 14, Boat Crew Seamanship Manual, COMDTINST M16114.5 (series)

Conditions Performed underway using the installed GPS, navigational kit, and charts found on the facility.

Standards In response to the mentor, the trainee must perform tasks. Correctly plot 2 positions of the boat to an accuracy of one tenth of a nautical mile. All plotting should be done using proper chart notation and symbols. The mentor should verify positions.

Completed

Performance Criteria

- _____ 1. Activated GPS.
- _____ 2. Plotted position of the boat on a chart, using latitude and longitude reading obtained from the boat's GPS.
- _____ 3. Verified all positions by using the fathometer, if available.

Accomplished **Mentor signature** _____ **Date** _____

Name: _____

Task COX-05-09-AUX

Task **Determine the Position of a Boat Using LORAN C (If Equipped)**

References Chapter 14, Boat Crew Seamanship Manual, COMDTINST M16114.5 (series)

Conditions Performed underway using the installed LORAN C, navigational kit, and charts found on the facility.

Standards In response to the mentor, the trainee must perform tasks. Correctly plot 2 positions of the boat to an accuracy of one tenth of a nautical mile. All plotting should be done using proper chart notation and symbols. The mentor should verify positions.

Completed

Performance Criteria

- _____ 1. Activated and properly tuned LORAN C unit.
- _____ 2. Identified master and secondary signals for unit's local operating area.
- _____ 3. Plotted position of the boat on a chart, using latitude and longitude reading.
- _____ 4. Plotted position of the boat on a chart, using time difference lines (TD) obtained from the LORAN C unit.
- _____ 5. Verified positions using the fathometer, if available.

Accomplished **Mentor signature** _____ **Date** _____

Name: _____

Task COX-05-10-AUX

Task	Determine Course to Steer And Speed Over Ground (SOG) Allowing for Set and Drift
References	Chapter 14, Boat Crew Seamanship Manual, COMDTINST M16114.5 (series)
Conditions	Performed both ashore and while underway. The underway portion will be performed in daylight in fair weather conditions, in calm or moderate seas. The mentor will provide the trainee with <u>intended course</u> and <u>designated speed</u> for the boat. Navigational tools, chart, and appropriate volume of the Tidal Current Tables will be required.
Standards	In response to the mentor, the trainee must plot the current triangle on the chart's compass rose. True direction must be used for plotting the current. The <u>intended course</u> , <u>current direction</u> , and <u>course to steer</u> must be plotted within three degrees. <u>Speed</u> will be determined to the nearest tenth of a knot. After determination of a true course to steer, convert to compass course for small boat navigation and state the basic concepts related to navigation as outlined in the steps below.

Completed

Performance Criteria

- _____ 1. Defined the terms set and drift associated with current.
- _____ 2. Stated the causes of set and drift.
- _____ 3. Stated the three vectors represented by the current triangle.
- _____ 4. Obtained the intended course and designated speed of the boat from the mentor.
- _____ 5. Used the center of the compass rose as departure point, drew boat's intended course through the center of the compass rose. Made this line indefinite in length. This is the desired course and speed vector.
- _____ 6. Obtained from the Tidal Current Table the true direction and speed of the current. Drew line for true direction of the current from the center of the compass rose made line the length of the current's speed (one knot is equal to one nautical mile) and placed an arrowhead at the outer end of the line. This is the set and drift vector. Measurement can be made with dividers either from the nautical mile or latitude scale on the chart.

_____ **Task COX-05-10-AUX** (Continued)

- _____
7. Used dividers to measure the designated speed of the boat along the desired course line drawn in STEP #6. Placed a small arrowhead at this point and a drew small circle around it.
- _____
8. Drew a straight line to connect the arrow point of the direction and speed of current, (set and drift vector). This line is the course to steer and speed to run (SOG). Measured the length of this line to obtain boat speed to run.
- _____
- Accomplished** 9. Converted true course to compass course for small boat navigation.

Mentor signature _____ **Date** _____

Name: _____

Task COX-05-11-AUX

Task **River Sailing, (Locks, Dams and Flood Warnings), and Pass Through A Lock (Optional)**

References Chapter 14, Boat Crew Seamanship Manual, COMDTINST M16114.5 (series)

Conditions Performed underway in calm wind and sea conditions, during the daylight.
Trainee must accomplish task without prompting or use of a reference.

Standards In response to the mentor, the trainee must show knowledge of locks, dams and flood warnings and operate the facility through a lock.

Completed

Performance Criteria

- _____ 1. Stated understanding of locks and dams construction and operation.
- _____ 2. Stated understanding of locking procedures and signals.
- a. Stated Lock Master's authority
 - b. Stated lock priority for pleasure craft
 - c. Identified and used proper radio frequency guarded by the Lock Master
 - d. Followed sound and light signals at the locks
- _____ 3. Directed crew to rig fenders, break out mooring lines, and tend while passing through the lock.
- _____ 4. Stated understanding of safety considerations navigating around dams.
- _____ 5. Stated understanding of flood warnings.

Accomplished **Mentor signature** _____ **Date** _____

Section F. Search And Rescue

Introduction

The following are the objectives for Section F:

- **Demonstrate** knowledge of SAR organization and responsibility.
 - **Demonstrate** knowledge of SAR fundamentals.
 - **Demonstrate** the ability to plot and execute commonly used search patterns.
-

In this section

This section contains eleven tasks:

Task Number	Task	See Page
COX-06-01-AUX	Organization And Responsibility	2-54
COX-06-02-AUX	Legal Aspects And USCG Policy	2-55
COX-06-03-AUX	SAR Emergency Phases	2-57
COX-06-04-AUX	State The Basic Concepts Related To Search Planning	2-58
COX-06-05-AUX	Plot A Single Unit Expanding Square Search Pattern (SS)	2-60
COX-06-06-AUX	Plot A Single Unit Sector Search Pattern (VS)	2-61
COX-06-07-AUX	Plot A Single Unit Parallel Search Pattern (PS)	2-62
COX-06-08-AUX	Plot A Single Unit Trackline Return Search Pattern (TSR)	2-63
COX-06-09-AUX	Plot A Single Unit Barrier Search Pattern (XSB)	2-64
COX-06-10-AUX	Execute A Search Pattern	2-65
COX-06-11-AUX	Obtain Distress Information And Pass To The Controlling Shore Unit	2-67

Name: _____

Task COX-06-02-AUX

Task **Legal Aspects And USCG Policies**

References Chapter 15, Boat Crew Seamanship Manual, COMDTINST M16114.5 (series)
Chapter 3, Coast Guard Addendum to the National Search and Rescue Manual, COMDTINST M16130.2 (series)

Conditions Performed at any time ashore, at the dock, or afloat. Trainee must accomplish task without prompting or use of a reference.

Standards In response to the mentor, the trainee must demonstrate a basic understanding of the legal aspects, USCG policy including Maritime SAR Assistance and General Salvage policy, and how it is related to Auxiliary SAR operations.

Completed

Performance Criteria

- _____ 1. Stated importance of distress beacons.
- _____ 2. Stated importance of flare sightings.
- _____ 3. Stated understanding of hoaxes and false alarms and the difference between them.
- _____ 4. Defined the Distress Emergency Phase of a SAR case.
- _____ 5. Defined a non-distress case.
- _____ 6. Discussed Coast Guard policy on responding to all requests for assistance, including "come upons."
- _____ 7. Stated resources the Coast Guard may use to provide assistance to boaters.
- _____ 8. Stated actions Auxiliarists can take in cases determined to be in the distress emergency phase.
- _____ 9. Stated actions Auxiliarists can take in cases determined to be non-distress.

Task COX-06-02-AUX (Continued)

- _____ 10. Stated actions a coxswain would perform when a disabled boat, not in contact with the Coast Guard, is found.

- _____ 11. Defined Marine Assistance Request Broadcast (MARB) and described how it relates to Auxiliary SAR operations.

- _____ 12. Stated when Coast Guard or Auxiliary units could engage in general salvage other than towing.

- _____ 13. Stated what actions Auxiliarists under orders would take in responding to a mariner's request to refloat a grounded boat.

Accomplished **Mentor signature** _____ **Date** _____

Name: _____

Task COX-06-03-AUX

Task **SAR Emergency Phases**

References Chapter 15, Boat Crew Seamanship Manual, COMDTINST M16114.5 (series)

Conditions Performed at any time ashore, at the dock, or afloat. Trainee must accomplish task without prompting or use of a reference.

Standards In response to the mentor, the trainee must, without error, state the basic concepts related to searching as outlined in the steps below.

Completed

Performance Criteria

- _____ 1. Defined the three phases of a SAR incident.
- a. Uncertainty phase
 - b. Alert phase
 - c. Distress phase
- _____ 2. Stated the initial action to take for each phase of a SAR incident.

Accomplished **Mentor signature** _____ **Date** _____

Name: _____

Task COX-06-04-AUX

Task	State The Basic Concepts Related To Search Planning
References	Chapter 15, Boat Crew Seamanship Manual, COMDTINST M16114.5 (series) Coast Guard Addendum to the National Search and Rescue Manual, COMDTINST M16130.2 (series)
Conditions	Performed at any time ashore, at the dock, or afloat. Trainee must accomplish task without prompting or use of a reference.
Standards	In response to the mentor, the trainee must state the basic concepts related to searching as outlined in the steps below.

Completed

Performance Criteria

- _____ 1. Defined datum.
- _____ 2. Defined commence search point (CSP).
- _____ 3. Defined corner point search area description.
- _____ 4. Defined center point search area description.
- _____ 5. Defined boundary method search area description.
- _____ 6. Defined track spacing (TS).
- _____ 7. Stated items included on a pre-search check list.
- _____ 8. Described the following search patterns, both single unit, (S) and multi unit, (M), and described the conditions in which they are most likely to be used.
- a. Expanding Square, (SS)
 - b. Sector Search, (VS)
 - c. Parallel Search, (PS)

Task COX-06-04-AUX (Contuned)

- d. Creeping Line Search, (CS)
- e. Trackline Single-Unit Return, (TSR)
- f. Barrier Search, (XSB)
- g. Initial Response Search area

Accomplished **Mentor signature**_____ **Date**_____

Name: _____

Task COX-06-05-AUX

Task	Plot a Single Unit Expanding Square Search Pattern (SS)
References	Chapter 15, Boat Crew Seamanship Manual, COMDTINST M16114.5 (series) Coast Guard Addendum to the National Search and Rescue Manual, COMDTINST M16130.2 (series)
Conditions	Performed at any time ashore. The mentor will provide the trainee with a Search Action Plan consisting of: Area Description, (<u>center point method</u>), pattern designation, Commence Search Point, (CSP), Track Spacing, (TS), orientation of the first search leg, and search speed to be used. The first leg of the search should run in the direction of drift. All turns are made 90 degrees to the right. Trainee must accomplish task without prompting or use of a reference.
Standards	Tasks COX-06-05-AUX through COX-06-09-AUX cover the plotting of five search patterns. The trainee will select three and plot three of these patterns, based on appropriateness of the patterns for the type of facility and the needs of the operating area. In response to the mentor, the trainee will plot an SS search pattern with a minimum of five legs.

Completed

Performance Criteria

- _____
1. Correctly laid out search area and pattern on chart with the CSP in the proper location and the first search leg oriented in the direction of drift.
 2. Correctly calculated time to complete the search and the time to turn each search leg.
- _____

Accomplished **Mentor signature** _____ **Date** _____

Name: _____

Task COX-06-06-AUX

Task **Plot a Single Unit Sector Search Pattern (VS)**

References Chapter 15, Boat Crew Seamanship Manual, COMDTINST M16114.5 (series)
Coast Guard Addendum to the National Search and Rescue Manual, COMDTINST M16130.2 (series)

Conditions Performed at any time ashore. The mentor will provide trainee with a Search Action Plan consisting of: area description, (center point method), pattern designation, Commence Search Point, (CSP), orientation of the first search leg, and search speed.

Standards Tasks COX-06-05-AUX through COX-06-09-AUX cover the plotting of five search patterns. The trainee will select three and plot **three** of these patterns, based on appropriateness of the patterns for the type of facility and the needs of the operating area.

In response to the mentor, the trainee will plot a complete VS search pattern. All turns must be 120 degrees to the right.

Completed

Performance Criteria

- _____ 1. Correctly laid out search area and pattern on chart with CSP in the proper location and the first search leg oriented in the direction of drift.
- _____ 2. Correctly calculated time to complete the search and time to turn each search leg.

Accomplished **Mentor signature** _____ **Date** _____

Name: _____

Task COX-06-07-AUX

Task	Plot a Single Unit Parallel Search (PS)
References	Chapter 15, Boat Crew Seamanship Manual, COMDTINST M16114.5 (series) Coast Guard Addendum to the National Search and Rescue Manual, COMDTINST M16130.2 (series)
Conditions	Performed at any time ashore. The mentor will provide trainee with a Search Action Plan consisting of: area description, (<u>corner point method</u>), pattern designation, Commence Search Point, (CSP), Track Spacing and search speed.
Standards	Tasks COX-06-05-AUX through COX-06-09-AUX cover the plotting of five search patterns. The trainee will select three and plot three of these patterns, based on appropriateness of the patterns for the type of facility and the needs of the operating area. In response to the mentor, the trainee will plot a PS pattern with a minimum of 6 legs.

Completed

Performance Criteria

- _____ 1. Correctly laid out search area and pattern on chart with the CSP in the proper location.
- _____ 2. Correctly calculated time to complete the search and time to turn for each search leg.

Accomplished **Mentor signature** _____ **Date** _____

Name: _____

Task COX-06-08-AUX

Task **Plot a Single-Unit Trackline Return Search Pattern (TSR)**

References Chapter 15, Boat Crew Seamanship Manual, COMDTINST M16114.5 (series)
Coast Guard Addendum to the National Search and Rescue Manual,
COMDTINST M16130.2 (series)

Conditions Performed at any time ashore. The mentor will provide trainee with a Search Action Plan consisting of: pattern designation, number of search legs, Commence Search Point, (CSP), Track Spacing, and search speed.

Standards Tasks COX-06-05-AUX through COX-06-09-AUX cover the plotting of five search patterns. The trainee will select three and plot **three** of these patterns, based on appropriateness of the patterns for the type of facility and the needs of the operating area.

In response to the mentor, the trainee will plot a TSR pattern. The pattern must include an estimated time to run.

Completed

Performance Criteria

- _____ 1. Correctly laid out search area and pattern on chart with the CSP in the proper location.
- _____ 2. Correctly calculated time to complete the search..

Accomplished **Mentor signature** _____ **Date** _____

Name: _____

Task COX-06-09-AUX

Task **Plot a Barrier Search Pattern (XSB)**

References Chapter 15, Boat Crew Seamanship Manual, COMDTINST M16114.5 (series)
Coast Guard Addendum to the National Search and Rescue Manual,
COMDTINST M16130.2 (series)

Conditions Performed at any time ashore. The mentor will provide trainee with a Search Action Plan consisting of: the speed of facility, net effect of current, width of the search area and Commence Search Point (CSP).

Standards Tasks COX-06-05-AUX through COX-06-09-AUX cover the plotting of five search patterns. The trainee will select three and plot **three** of these patterns, based on appropriateness of the patterns for the type of facility and the needs of the operating area.

In response to the mentor, plot an XSB pattern.

Completed

Performance Criteria

- _____ 1. Correctly laid out search area and pattern on chart with the CSP in the proper location.
- _____ 2. Correctly calculated time to complete the search and time to turn for each search leg.

Accomplished **Mentor signature** _____ **Date** _____

Name: _____

Task COX-06-10-AUX

Task **Execute a Search Pattern**

References Chapter 15, Boat Crew Seamanship Manual, COMDTINST M16114.5 (series)
Coast Guard Addendum to the National Search and Rescue Manual, COMDTINST M16130.2 (series)

Conditions Performed underway in calm to moderate weather. The mentor will select a search pattern plotted in Tasks COX-06-05-AUX through COX-06-09-AUX. Use existing wind, current and weather conditions. The search object is a 14-ft boat.

Standards The trainee must determine new datum as necessary. The facility shall commence search pattern within 100 yards of CSP. The pattern will be run for a minimum of six legs, (SS, PS, or CS) or to completion, (VS, TSR or XSB). All turn points must be determined using the most accurate method available to the boat.. The search pattern shall be completed within 5 minutes of the calculated completion time.

Completed

Performance Criteria

- _____ 1. Briefed crewmembers on mission.
- _____ 2. Arrived within 100 yards of plotted CSP.
- _____ 3. Determined new datum, (if necessary).
- _____ 4. Deployed Datum Marker Bouy, (as applicable).
- _____ 5. Reported on-scene weather to Operational Commander.
- _____ 6. Ran pattern as previously plotted.
- _____ 7. Completed turns within 50 yards of plotted positions.
- _____ 8. Utilized fathometer to verify water depth.
- _____ 9. Stated SOG.

Task COX-06-10-AUX (Continued)

_____ 10. Navigated facility in accordance with Rules of the Road.

_____ 11. Identified and utilized aids to navigation.

_____ 12. Completed search within 5 minutes of calculated time.

Accomplished **Mentor signature** _____ **Date** _____

Name: _____

Task COX-06-11-AUX

Task **Obtain Distress Information and Pass to The Controlling Shore Unit**

References Chapter 11, Boat Crew Seamanship Manual, COMDTINST M16114.5 (series)

Conditions Performed underway, dock side or ashore. The Mentor will simulate a call from a vessel in distress. The trainee will obtain necessary information from the distressed boat.

Standards In response to the mentor, the trainee must receive and transmit message traffic using proper radio telephone procedures, including prowords and phonetic alphabet, and identify the voice distress/safety call signals and their frequencies.

Completed

Performance Criteria

- _____ 1. Identified the voice distress/safety call signals and their broadcast frequency:
- a. MAYDAY, MAYDAY, MAYDAY – Channel 16, (156.8MHZ) or 2182KHZ
 - b. PAN PAN, PAN PAN, PAN PAN – Channel 16 or 2182 KHZ
 - c. SECURITE, SECURITE, SECURITE – Channel 16 or 2182 KHZ with brief message, then shift to Channel 22A, (157.1MHZ), or 2670 KHZ to transmit full message.
- _____ 2. Made initial contact with the distressed boat on Channel 16 VHF.
- _____ 3. Did not change frequency unless it was necessary.
- _____ 4. Requested additional information that may not have been passed during initial MAYDAY transmission:
- a. Name of distressed boat.
 - b. Disabled boat's position.

Task COX-06-11-AUX (Continued)

- c. Nature of emergency.
- d. Assistance required.
- e. Number of people on board (POB) and their medical condition.
- f. Boat's description and amount of time boat can stay afloat if sinking.
- g. Emergency equipment onboard.
- h. On scene weather and sea conditions.

_____ 5. Transmitted the following radio traffic to the distressed boat broadcasting a MAYDAY:

- a. Name/Number of distressed vessel's name
- b. "This is Coast Guard Auxiliary Vessel, (vessel ID)"
- c. Received MAYDAY
- d. Allowed short period of time after acknowledging MAYDAY for other stations to acknowledge receipt

_____ 6. Advised distressed boat to have all persons onboard put on life jackets, (PFDs), and to confirm this has been accomplished.

_____ 7. Passed your position and estimated time of arrival, (ETA), on scene to distressed boat.

_____ 8. Kept distressed boat informed of search and rescue effort and set a continuous radio guard.

_____ 9. Relayed information to the controlling shore unit as soon as possible.

Accomplished **Mentor signature** _____ **Date** _____

Section G. Rescue and Assistance

Introduction

The following are the objectives for Section G:

- **Demonstrate** the ability to rescue personnel in various distress situations
 - **Demonstrate** the ability to deliver personnel or equipment to vessels in distress
 - **Demonstrate** the knowledge and ability to use standard Coast Guard salvage equipment
 - **Demonstrate** the knowledge and ability to transfer personnel safely between different types of units
-

In this section

This section contains six tasks:

Task Number	Task	See Page
COX-07-01-AUX	Determine The Approach And Station Keep	2-70
COX-07-02-AUX	Recover A Person From The Water Using The Direct Pick Up Method	2-71
COX-07-03-AUX	De-Water A Boat Taking On Water Using A Portable Pump (Optional)	2-73
COX-07-04-AUX	Conduct A Basket Hoist To Transfer Personnel To A Helicopter (Optional)	2-74
COX-07-05-AUX	Approach A Burning Boat And Recover Personnel	2-76
COX-07-06-AUX	State The Action To Take If Your Boat Was Aground	2-78

Name: _____

Task COX-07-01-AUX

Task	Determine the Approach to an Object and Station-Keep
References	Chapter 16 and Heavy Weather Addendum, Boat Crew Seamanship Manual, COMDTINST M16114.5 (series)
Conditions	Performed underway in calm to moderate conditions. Trainee must accomplish task without prompting or use of a reference.
Standards	In response to the mentor the trainee while operating the boat must, determine the approach on a stationary object, (buoy, piling, anchored boat, etc), or floating object, (boat adrift, life ring, etc.), while using the predominant forces in boat handling. The trainee must then station keep on the object, at a safe maneuvering distance for the conditions, for 3 minutes in accordance with the steps below.

Completed

Performance Criteria

- _____ 1. Evaluated the water depth and surrounding area for safety of the approach.
- _____ 2. Positioned the facility at a safe distance and determined the rate of drift between object and facility.
- _____ 3. Evaluated the predominant forces to determine the approach and station keeping.
- _____ 4. Briefed the crew of your intentions and their responsibilities.
- _____ 5. Approached the object at a safe speed.
- _____ 6. Kept station on the object for 3 minutes.

Accomplished **Mentor signature** _____ **Date** _____

Name: _____

Task COX-07-02-AUX

Task **Recover a Person From the Water Using the Direct Pick-Up Method**

References Chapter 16, Boat Crew Seamanship Manual, COMDTINST M16114.5 (series)

Conditions Performed underway during daylight in calm to moderate seas. Person in the water (PIW) will be simulated with a life-like dummy, fender, or some other floating object. **UNDER NO CIRCUMSTANCES SHOULD A PERSON BE PLACED IN THE WATER.** Trainee must accomplish task without prompting or use of a reference.

Standards In response to the mentor, after alarm is sounded, the trainee must recover the simulated PIW. The pick-up should be completed within five minutes. **Boat's engine(s) must be in neutral when the PIW is alongside.** The pick-up must be conducted in a manner so as not to endanger the safety of the crew or PIW. Trainee should be able to do the task on the first attempt without extensive maneuvering.

Completed

Performance Criteria

- _____ 1. After alarm sounded, turned boat in a safe direction.
- _____ 2. Assigned crew duties as pointer or recovery pickup man.
- _____ 3. Sounded the danger signal, (5 or more short blasts).
- _____ 4. Marked boat's position by depressing the memory button on the Loran C, or activated the "MOB" function on the GPS, (if available).
- _____ 5. Notified controlling authority of Man Overboard and approximate position.
- _____ 6. Briefed crew on pick up.
- _____ 7. Described the following technics for returning to the PIW.
 - a. Stop immediately
 - b. Quick turn

Task COX-07-02-AUX (Continued)

c. Stop and pivot return

d. Destroyer turn

- _____ 8. Determined set and drift for approach based on prevailing weather, (predominant forces).
- _____ 9. Made approach based on the predominant forces. Facility slowed as final approach made.
- _____ 10. Maneuvered alongside PIW.
- _____ 11. Placed engine(s) in neutral when PIW was abeam of the boat.
- _____ 12. Made all steering adjustments, keeping the boat's stern away from the PIW.
- _____ 13. Directed pickup man to recover the PIW at the boat's lowest freeboard.
- _____ 14. Ensured crewmembers did not endanger themselves while retrieving PIW.
- _____ 15. Made an initial patient assessment and simulated administering first aid as needed.
- _____ 16. Notified the controlling authority of PIW's condition.

Accomplished **Mentor signature** _____ **Date** _____

Name: _____

Task COX-07-03-AUX

Task **De-Water a Boat Taking on Water Using a Portable Pump (Optional)**

References Chapter 18, Boat Crew Seamanship Manual, COMDTINST M16114.5 (series)
Portable Pump Operating Instructions

Conditions Performed underway during daylight in calm sea conditons. A second boat will be necessary to perform task. Trainee must accomplish task without prompting or use of a reference.

Standards In response to the mentor, the trainee must, dewater a boat taking on water, (simulated), using a portable pump. Care must be taken not to endanger the boats or crews.

Completed

Performance Criteria

- _____ 1. Briefed crew members, assigned duties, and pumps broken out and checked.
- _____ 2. Assessed the situation (**if the boat is in danger of sinking recover persons from the boat**), informed controlling authority.
- _____ 3. All persons on the distressed boat accounted for upon arrival.
- _____ 4. Distressed boat approached and taken in alongside tow (drifted or proceeded at slow speed to maintain headway and control excessive rocking), if safe to do so.
- _____ 5. Dewatered distressed vessel. Discussed reducing or controlling flooding by safely making minor repairs, patching and/or plugging, etc.

Accomplished **Mentor signature** _____ **Date** _____

Name: _____

Task COX-07-04-AUX

Task **Conduct a Basket Hoist to Transfer Personnel to a Helicopter (Optional)**

References Chapter 19, Boat Crew Seamanship Manual, COMDTINST M16114.5 (series)

Conditions Performed underway or ashore. If possible, coordinate actual helicopter operations with local Coast Guard unit. If no helicopter is available, the trainee will explain the procedures to be followed during helicopter hoisting operations.

Standards The trainee will coordinate the transfer. Task must be done without endangering the crewmembers or helicopter. Basket and/or line must not become entangled or attached to the boat at any time. Basket must be grounded to the boat before crewmembers handle it.

Completed

Performance Criteria

- _____ 1. Conducted crew brief and assigned duties including:
- a. Emergency breakaway procedures
 - b. Safety equipment used
 - c. Personnel Protective Equipment worn
- _____ 2. Boat made ready for hoist.
- _____ 3. Established communications with the helicopter.
- _____ 4. Conducted hoist briefing with the helicopter.
- _____ 5. Communicated number of personnel in the helicopter and on the facility.
- _____ 6. Maneuvered boat and maintained heading and speed directed by aircraft commander, (checked chart for navigational hazards), before and during hoisting operations.

Task COX-07-04-AUX (Continued)

- _____ 7. Brought basket onto the boat's deck by hand using a deadman's stick or a tag line.
- _____ 8. Basket hoisted by the helicopter.
- _____ 9. Debriefed crew.

Accomplished **Mentor signature** _____ **Date** _____

Name: _____

Task COX-07-05-AUX

Task	Approach a Burning Boat and Recover Personnel
References	Chapter 18, Boat Crew Seamanship Manual, COMDTINST M16114.5 (series)
Conditions	Performed underway during daylight in fair weather conditions. The distressed boat will simulate having a fire onboard.
Standards	In response to the mentor, the trainee while operating the boat must approach a burning boat, (simulated), and recover personnel. Task must be done without endangering either boat or crews.

Completed

Performance Criteria

- _____ 1. Briefed crew and assigned duties, (Man Overboard gear, first aid kit, etc. made ready).
- _____ 2. Established communications with disabled boat and determined:
- a. Number of persons on board
 - b. Any persons already in the water
 - c. Any injuries or other medical conditions.
 - d. Instructed persons on board to don life jackets
 - e. Passed your intentions to the disabled boat
- _____ 3. Approached boat from upwind.
- _____ 4. Rescued all personnel in danger, (from the water and/or the boat). Accounted for all personnel from the distressed boat.
- _____ 5. Made an initial patient assessment and simulated administering first aid as needed.

Task COX-07-05-AUX (Continued)

- _____ 6. Informed operational commander or Emergency Medical Service (EMS), as appropriate for situation. Transported personnel as needed.

- _____ 7. If no one was injured, set up a safety zone well away from the burning boat. (Asked survivors if there is gasoline, propane or other explosive materials on the boat, its location, and pass on to the operational commander).

Accomplished **Mentor signature**_____ **Date**_____

Name: _____

Task COX-07-06-AUX

Task	State the Action to Take if Your Boat Was Aground
References	[To be developed]
Conditions	Performed at any time ashore, at the dock, or afloat. Trainee must accomplish task without prompting or use of a reference.
Standards	In response to the mentor, the trainee must, without error, state the general action to take if his/her boat was aground.

Completed

Performance Criteria

1. Stated that boat's engine(s) should be secured.

2. Stated initial evaluation steps:
- a. Checked personnel for injuries
 - b. Ensured boat not taking on water
 - c. Notified controlling unit
 - d. Took soundings around boat

3. Described the pros and cons of refloating using the following methods:
- a. Backing straight off
 - b. Redistribution of weight
 - c. Kedging

Task COX-07-06-AUX (Continued)

- _____ 4. Described the action to take if you can not refloat boat:
- a. Set anchor(s) to prevent boat from being pushed further aground
 - b. Set up communications schedule with controlling unit

Accomplished **Mentor signature** _____ **Date** _____

Section H. Towing and Salvage

Introduction

The following are the objectives for Section H:

- **Define** and **state** the static and dynamic forces that come into play during various towing evolutions
 - **Demonstrate** the procedures used when preparing to take a vessel in tow
 - **Demonstrate** the procedures for inspecting both fixed and running towing gear
 - **Demonstrate** the procedures for taking a boat in tow using different approaches
-

In this section

This section contains nine tasks:

Task Number	Task	See Page
COX-08-01-AUX	State General Towing Safety Precautions	2-81
COX-08-02-AUX	State The Principal Forces That Effect Small Boat Towing	2-82
COX-08-03-AUX	Inspect The Towline And Associated Hardware	2-84
COX-08-04-AUX	Make Preparations For Taking A Vessel In Tow	2-85
COX-08-05-AUX	Take A Vessel In Stern Tow	2-87
COX-08-06-AUX	Use A Shackle Or Kicker/Skiff Hook Assembly Connection To Take A Vessel In Stern Tow	2-89
COX-08-07-AUX	Take A Boat In Alongside Tow (Waiverable by DIRAUX)	2-91
COX-08-08-AUX	Moor A Disabled Vessel In Tow To A Float Or Pier	2-93
COX-08-09-AUX	Discuss Procedures For Re-Floating A Grounded Vessel Using A Straight Ahead Pull	2-94

Name: _____

Task COX-08-01-AUX

Task **State General Towing Safety Precautions**

References Appendix 17-A, Boat Crew Seamanship Manual,
COMDTINST M16114.5 (series)

Conditions Performed at any time ashore, at the dock, or afloat. Trainee must accomplish task without prompting or use of a reference.

Standards In response to the mentor, the trainee must state the general safety towing precautions.

Completed

Performance Criteria

- _____ 1. Stated when to remove personnel from disabled boat.
- _____ 2. Stated policy on wearing PFDs by personnel aboard the disabled boat.
- _____ 3. Stated precautions regarding throwing a heaving line.
- _____ 4. Stated considerations regarding communications establishment and maintenance of a communication schedule with disabled boat.
- _____ 5. Stated precautions regarding personnel around the towline.
- _____ 6. Stated precautions regarding the breaking strength and failure of shackles, towsheets and bridles.
- _____ 7. Stated considerations regarding the inspection of deck fittings on the disabled boat.
- _____ 8. Stated considerations of towing boat's towing capacity and towed boat's capability and hull speed.

Accomplished **Mentor signature** _____ **Date** _____

Name: _____

Task COX-08-02-AUX

Task	State the Principal Forces that Effect Small Boat Towing
References	Chapters 8 and 17, Boat Crew Seamanship Manual, COMDTINST M16114.5 (series)
Conditions	Performed at any time ashore, at the dock, or afloat. Trainee must accomplish task without prompting or use of a reference.
Standards	In response to the mentor, the trainee must state the principle forces effecting small boat towing.

Completed

Performance Criteria

- _____ 1. Stated causes and effects of static forces and how to overcome the effect of static force when starting a tow and when changing the towing vessel's heading.
- _____ 2. Stated types, causes, and effects of dynamic forces.
- _____ 3. Stated causes of towline strain.
- _____ 4. Stated cause and effect of shock load and techniques to prevent, counteract, or reduce its effects.
- _____ 5. Stated effect that the following have on shock load:
- a. Reducing towing speed
 - b. Getting the vessels in step
 - c. Lengthening the towline
 - d. Setting a course to lessen the effect of the seas
 - e. Deploying a drogue from the towed vessel

Task COX-08-02-AUX (Continued)

- f. Constantly adjusting the towing vessel's speed to match that of the towed vessel

6. Stated the effect different hull types have on dynamic forces:

- a. Displacement hull
- b. Planing hull
- c. Semi-displacement hull
- d. Multi-hull

Accomplished **Mentor signature** _____ **Date** _____

Name: _____

Task COX-08-03-AUX

Task	Inspect a Towline and Associated Hardware
References	Chapter 17, Boat Crew Seamanship Manual, COMDTINST M16114.5 (series)
Conditions	Performed dockside during daylight hours. All lines, bridles, shackles, hooks, and other towing gear carried aboard the facility must be inspected. Trainee must accomplish task without prompting or use of a reference.
Standards	All gear should be inspected in accordance with the above reference and as outlined in the steps below.

<u>Completed</u>	<u>Performance Criteria</u>
_____	1. Towline inspected, warning signs of wear or defective condition stated.
_____	2. Bridles inspected, warning signs of wear or defective condition stated.
_____	3. Shackles and kicker/skiff hook inspected, warning signs of wear or defective condition stated.
_____	4. Bitts, cleats, chocks, and other associated towing gear inspected, warning signs of wear or defective condition stated.

Accomplished **Mentor signature** _____ **Date** _____

Name: _____

Task COX-08-04-AUX

Task **Make Preparations for Taking a Vessel in Tow**

References Chapter 17, and Appendix 17-A, Boat Crew Seamanship Manual,
COMDTINST M16114.5 (series)

Conditions Performed at any time underway in calm conditions. Trainee must accomplish
task without prompting or use of a reference.

Standards In response to the mentor, the trainee must make necessary preparations to take a
vessel in tow in accordance with the steps outlined below.

Completed

Performance Criteria

- _____ 1. Communications established with vessel to be towed.
- _____ 2. Performed an on-scene assessment of the disabled vessel's material condition.
- _____ 3. Determined physical condition of the people on board the disabled vessel.
- _____ 4. Directed people on board disabled vessel to don life jackets.
- _____ 5. Determined the rate of drift and approach to make.
- _____ 6. Briefed crew and assigned duties.
- _____ 7. Briefed disabled vessels crew on:
 - a. Transfer of crew or equipment prior to towing
 - b. Hookup procedure
 - c. Line handling
 - d. Emergency breakaway communications/signals

Task COX-08-04-AUX (Continued)

- e. General safety during the approach, passing of towline and the towing evolution
- f. Chafing gear fitting for towing line or bridle
- g. Operating procedure, (steering behind, etc.)
- h. Towing approach

_____ 8. Towline rigged for passing to the disabled vessel.

_____ 9. Communications schedule established with disabled vessel, for the duration of the tow.

_____ 10. Ensured that the operator of the disabled vessel understands the above procedures.

Accomplished **Mentor signature** _____ **Date** _____

Name: _____

Task COX-08-05-AUX

Task **Take a Vessel in Stern Tow**

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

Conditions Performed underway in calm to moderate weather conditions. Two boats are required. The towed vessel must be within the towing vessel's maximum towing capabilities.

Standards In response to the mentor, the trainee must take a vessel in stern tow. The trainee must be at the helm and operating the facility. A heaving line must be used to pass the towline. A bridle may be used for hooking up. Task must be done without endangering boats or crews.

Completed

Performance Criteria

- _____ 1. Made preparations for taking a boat in stern tow in accordance with Task COX-08-04-AUX.
- _____ 2. Maneuvered boat onto the same heading as the disabled vessel and stopped astern of it.
- _____ 3. Determined vessels relative rate of drift by observing which vessel drifts to leeward faster.
- _____ 4. Made approach into predominate weather/seas.
- _____ 5. Performed station keeping in optimal position.
- _____ 6. Towline passed using heaving line, if necessary.
- _____ 7. Line paid out and tended away from screws.
- _____ 8. A working turn placed on tow bitt or cleat/s after towline is secured on disabled vessel.

Task COX-08-05-AUX (Continued)

- _____ 9. Initial course set and directed crew to pay out appropriate length of towline for the size and type of boat being towed.
- _____ 10. Made up tow bitt.
- _____ 11. Adjusted scope of towline to put towed vessel in step.
- _____ 12. Towing watch set and maintained.
- _____ 13. Installed chafing gear as needed.
- _____ 14. Maintained safe towing speed.
- _____ 15. Checked status of towed vessel.

Accomplished **Mentor signature** _____ **Date** _____

Name: _____

Task COX-08-06-AUX

Task	Use a Shackle or Kicker/Skiff Hook Assembly Connection to Take a Vessel in Stern Tow
References	Chapter 17, Boat Crew Seamanship Manual, COMDTINST M16114.5 (series)
Conditions	Performed underway in calm weather conditions. Two boats are required. The towed vessel must be within the towing vessel's maximum towing capabilities.
Standards	In response to the mentor, the trainee must use a kicker/skiff hook to take a vessel in stern tow. Task must be done without endangering either boat or crew.

Completed

Performance Criteria

- | | |
|-------|--|
| _____ | 1. Made preparations for taking a boat in tow in accordance with Task COX-08-04-AUX. |
| _____ | 2. Began approach from off the bow and down wind of the disabled vessel. |
| _____ | 3. Maneuvered boat to position in front of the disabled vessel. |
| _____ | 4. Performed station keeping in optimal position, close enough to pass the shackle or attach the skiff hook. |
| _____ | 5. Directed crewmember to attach shackle or pass the skiff hook to the disabled boat. |
| _____ | 6. Paid out and tended line away from screws. |
| _____ | 7. Placed working turn on tow bitt or cleat(s) after towline is secured on disabled vessel. |
| _____ | 8. Set initial course. |
| _____ | 9. Directed crew to pay out appropriate length of towline. |

Task COX-08-06-AUX (Continued)

_____ 10. Towing watch set and maintained.

_____ 11. Adjusted scope of towline to put boats in step.

_____ 12. Chafing gear installed (if needed).

_____ 13. Maintained safe towing speed.

_____ 14. Checked status of towed vessel.

Accomplished **Mentor signature** _____ **Date** _____

Name: _____

Task COX-08-07-AUX

Task **Take a Boat in Alongside Tow**

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

Conditions Performed underway in calm weather. Two boats are needed. The towed vessel must be within the towing vessel’s maximum towing capabilities. Trainee must accomplish task without prompting or use of a reference.

NOTE: This task may be waived by the Director in areas where facilities and/or operating conditions are not safe or suitable for alongside tows.

Standards In response to the mentor, the trainee must transition from stern tow to alongside tow. All line handling commands must be given and received in a loud/clear voice using proper commands. Task must be done without endangering either boat or crew.

NOTE: May be waived by the Director in accordance with Section 1.B.4.

Completed

Performance Criteria

- | | |
|-------|--|
| _____ | 1. Briefed crew and assigned duties. Emphasized the necessity for communications between crew and coxswain. |
| _____ | 2. Briefed operator of the towed boat on procedure to be used. |
| _____ | 3. Prepared deck for alongside tow. <ul style="list-style-type: none"> a. Rigged fenders on appropriate side of tow vessel. b. Made alongside lines ready. |
| _____ | 4. Slowed speed in increments and shortened tow if needed. Maintained positive control of the tow, kept towline in view and appropriate relative position while shortening tow. |
| _____ | 5. Broke down tow bitt, (if equipped), hauled slack towline aboard and faked out of the way. |

Task COX-08-07-AUX (Continued)

- _____ 6. Dropped towline of disabled vessel (for free approach), or properly executed a backdown approach.
- _____ 7. Moved towline to the #1 line position, (bowline), or replaced towline with another line.
- _____ 8. Secured the bowline, (#1 line), to forward cleat/bitt.
- _____ 9. Passed and secured tow strap, (#2 line), to disabled boat ensuring the stern of the boat is aft of the towed boat.
- _____ 10. Directed crew to pass and establish control of stern line (#4 line).
- _____ 11. Directed crew to pass and establish control of backing line (#3 line).
- _____ 12. Passed eye of all lines to towed boat and working ends used on the facility.
- _____ 13. Tow strap tightened by facility going astern, pulling in slack, and securing the line.
- _____ 14. All other lines adjusted by vessel gaining headway, taking up slack and lines secured.

NOTE: The stern tow can be shifted to an alongside tow by walking the towline forward and using it as the #1 line, (bow line). Or the towline may be disconnected after slowing the tow, and a free approach to the disabled boat can be made to take the boat alongside.

Accomplished **Mentor signature** _____ **Date** _____

Name: _____

Task COX-08-08-AUX

Task **Moor a Disabled Vessel in Tow to a Float or Pier**

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

Conditions Performed at any time ashore, at the dock, or afloat. Trainee must accomplish task without prompting or use of a reference. Performed underway in calm seas. Two boats are required.

Standards In response to the mentor, the trainee must moor a disabled vessel in tow to a float or pier. Trainee must be at the helm and operating the facility. Task must be done without endangering personnel or boat. Towline must not be placed near the screws at any time.

Completed

Performance Criteria

- _____ 1. Stated the expected effects of the wind and current on the mooring of the boat.
- _____ 2. Briefed crew on the procedure to be used and their duties. Emphasized the necessity for communications between crew and coxswain.
- _____ 3. Briefed operator of the towed boat on mooring method and location.
- _____ 4. Briefed bow pointer and positioned in effective location.
- _____ 5. Approached dock slowly at an angle.
- _____ 6. Directed crewmember standing on bow to give distances to the pier or float.
- _____ 7. Moored disabled boat, (or larger of two boats), against pier or float.
- _____ 8. Directed crewmember on bow to secure bowline, (#1 line), or after bow spring line, (#2 line).
- _____ 9. Pivoted stern of towed boat, (or larger boat), towards dock.
- _____ 10. Directed crew to secure stern line, then the two side mooring lines.

Accomplished **Mentor signature** _____ **Date** _____

Name: _____

Task COX-08-09-AUX

Task **Discuss Procedures for Re-Floating a Grounded Vessel Using a Straight-Ahead Pull**

References To be developed

Conditions Performed at any time ashore, at the dock, or underway. Trainee must accomplish task without prompting or use of a reference.

Standards In response to the mentor, the trainee must state the procedures for refloating a grounded boat.

Completed

Performance Criteria

- _____ 1. State the General Salvage Policy for refloating a grounded boat.
- _____ 2. Stated conditions when an attempt should be made to refloat a grounded boat.
- _____ 3. Defined other methods of refloating and stated when they should be used.
- _____ 4. Stated range and time of high tide and its effect on operations.
- _____ 5. Stated use of anchors for holding either the tow boat or the grounded boat in position.
- _____ 6. Stated the importance of briefing crew and delineating their duties.
- _____ 7. Stated importance of briefing the operator of the grounded boat on procedures to be used.
- _____ 8. Stated reason for taking soundings throughout area of grounded boat.
- _____ 9. Stated survey conducted for damage by crew member of grounded boat.
- _____ 10. Stated that the tow boat is to be positioned up current and heaving line or towline passed and secured to grounded boat.
- _____ 11. Stated when to weigh tow boat's anchor if used.

Task COX-08-09-AUX (Continued)

- _____ 12. Stated tow boat brought ahead slowly pulling on grounded boat in the opposite direction that it went aground.

- _____ 13. Stated when to weigh grounded boat's anchor.

- _____ 14. Stated that disabled boat should be surveyed for damage after it has been refloated.

Accomplished **Mentor signature** _____ **Date** _____

Section I. Auxiliary Specific Tasks

Introduction

The following are the objectives for Section I:

- **Demonstrate** the ability to perform various Auxiliary administrative and “command” duties.
 - **Demonstrate** competency to perform as an Auxiliary Coxswain on an operational facility.
-

In this section

This section contains five tasks:

Task Number	Task	See Page
COX-09-01-AUX	Discuss Auxiliary Patrol Commander’s Duties	2-97
COX-09-02-AUX	Coordinate A Simulated Multi-Unit Event (Optional)	2-99
COX-09-03-AUX	Complete Administrative Tasks (Reports, Orders, Etc.)	2-101
COX-09-04-AUX	Perform A Night Navigation And Piloting Exercise (Waiverable by DIRAUX)	2-102
COX-09-05-AUX	Dockside Oral Exam	
COX-09-06-AUX	Underway Check Ride	2-104

Name: _____

Task COX-09-01-AUX

Task **Discuss Auxiliary Patrol Commander’s Duties**

References Chapter 2, Boat Crew Seamanship Manual, COMDTINST M16114.5 (series)

Conditions Performed ashore. The mentor will provide the trainee with information and requirements about a simulated marine parade or regatta.

Standards In response to the mentor, the trainee must discuss the duties and responsibilities of an Auxiliary Patrol Commander (PATCOM) for a marine event.

Completed

Performance Criteria

- _____ 1. Obtained a copy of the approved application(s), written instructions or authority for event.
- _____ 2. Obtained and studied any specific additional instructions.
- _____ 3. Coordinated with sponsor and law enforcement agencies.
- _____ 4. Established fixed and/or moving sectors using given information (course, route, etc.).
- _____ 5. Determined patrol requirements (boats, radio facilities, crews, etc.).
- _____ 6. Ensured arrangements made for the proper facilities to be available.
- _____ 7. Briefed all parties on their duties, responsibilities, ensured all boats are in proper trim (flags, signs, neat appearance, etc.) and crews in proper uniform.
- _____ 8. Selected a PATCOM vantage point with visibility and mobility in mind.
- _____ 9. Established communication frequencies and network..
- _____ 10. Deployed facilities to their patrol positions.
- _____ 11. Ensured all debris and spectator boats are clear of the patrol area.

Task COX-09-01-AUX (Continued)

- _____ 12. Monitored and ensured receipt of all casualty reports.
- _____ 13. Dispatched a facility to assist as needed or stop event if necessary.
- _____ 14. Ensured area cleared after completion of the event.
- _____ 15. Completed required after action reports.

Accomplished **Mentor signature** _____ **Date** _____

Name: _____

Task COX-09-02-AUX

Task	Coordinate a Simulated Multi-Unit Event (Optional)
References	Chapter 2, Boat Crew Seamanship Manual, COMDTINST M16114.5 (series)
Conditions	Performed ashore. The mentor will provide the trainee with information and requirements about a simulated marine parade or regatta. Trainee may accomplish task with a little prompting and may use references.
Standards	In response to the mentor, the trainee must coordinate a simulated multi-unit event following the steps below.

Completed

Performance Criteria

- _____
- _____
1. Stated difference between a marine parade and a regatta patrol.
 2. Discussed the following sequence of events for a marine parade:
 - a. Sponsor filed Application of Marine Event with designated Coast Guard unit or civil authority thirty, (30) days in advance.
 - b. Approving authority stipulated Coast Guard or Coast Guard Auxiliary patrol boats.
 - c. PATCOM or AUXCOM appointed.
 - d. Coordinated with sponsor and obtained additional details.
 - e. Established requirements and obtained patrol boats, land mobiles, fixed land radio stations, and crews.
 - f. Coordinated with law enforcement authorities.
 - g. Briefed all parties.
 - h. Filed final reports.

Task COX-09-02-AUX (Continued)

- _____ 3. Discussed the following concerning marine patrols:
- a. Control of spectator fleet.
 - b. Preventing transient boats from disrupting parade.
 - c. Maintain parade configuration, preestablished route and time table.
 - d. Render assistance to life threatening situations first and endangered property second.

Accomplished **Mentor signature** _____ **Date** _____

Name: _____

Task COX-09-03-AUX

Task	Complete Administrative Tasks (Reports, Orders, Etc.)
References	Auxiliary Operations Policy Manual, COMDTINST M16798.3 (series) Various Forms Instructions District Director's procedures for submitting forms
Conditions	Performed at any time ashore, at the dock, or afloat. Trainee may use instructions for filling out the forms, and must follow the most current district/area procedures for submitting forms.
Standards	In response to the mentor, the trainee must, demonstrate the ability to prepare and submit forms associated with Auxiliary patrols under Coast Guard orders, and the procedures to follow if involved in a mishap.

Completed

Performance Criteria

- _____ 1. Prepared Activity Report-Mission, CGAUX-26.
- _____ 2. Prepared Auxiliary SAR Incident Report, CG-4612.
- _____ 3. Prepared Coast Guard Auxiliary Patrol Order, CG-5132.
- _____ 4. Stated reference sources to follow if involved in a boat mishap.
- _____ 5. Described distribution of the above forms and submission requirements.

Accomplished **Mentor signature** _____ **Date** _____

Name: _____

Task COX-09-04-AUX

Task	Perform a Night Navigation and Piloting Exercise
References	Chapter 14, Boat Crew Seamanship Manual, COMDTINST M16114.5 (series)
Conditions	Performed at the dock and underway in calm conditions on a clear night. The trainee must use crewmembers and available equipment to integrate information and safely navigate the facility. All chart work, including courses, distances, time to run and electronics set up shall be completed prior to getting underway. Trainee must accomplish task without prompting or use of a reference.
Standards	In response to the mentor, the trainee must perform a nighttime navigation and piloting exercise. After receiving position (given by the mentor), the trainee should plot a course, determine an ETA, and get the facility underway within 30 minutes of notification. NOTE: May be waived by the Director in accordance with Section 1.B.4.

Completed

Performance Criteria

- | | |
|-------|---|
| _____ | 1. Compass course laid out on the chart indicating predicted turns, and ETA established |
| _____ | 2. Conducted a pre-underway check off and confirmed the facility was within its stated operational limitations to perform the assigned mission. |
| _____ | 3. Conducted a pre-underway brief. |
| _____ | 4. Ensured all crewmembers wore PFD's and had a good understanding of the use of the personnel survival equipment. Tested electronic PMLs. |
| _____ | 5. Departed within 30 minutes of notification. |
| _____ | 6. Efficiently and safely handled the facility and communicated effectively with crewmembers while getting underway. |

Task COX-09-04-AUX (Continued)

7. Piloted by dead reckoning and/or “Seaman’s Eye”. Considered and adjusted for the effects of:

- a. Tide
- b. Currents
- c. Wind and weather conditions
- d. Navigational hazards

8. Used manual and electronic navigational equipment to determine position and adjust DR and ETA for safe navigation.

9. Properly assigned and utilized crewmembers.

10. Arrived within 10 minutes of ETA and 500 yards of given position.

Note: Although the 10 minute ETA is desirable it should not over ride safety or other factors which would hinder safe navigation.

11. Effectively used risk management and team coordination with crewmembers.

Mentor signature _____ **Date** _____

Accomplished

Name: _____

Task COX-09-05-AUX

Task **Dockside Oral Examination**

References Boat Crew Seamanship Manual, COMDTINST M16114.5 (series)
Auxiliary Operations Policy Manual, COMDTINST M16798.3 (series)
District SOPs, Policy Manuals, and other local Instructions

Conditions Performed ashore or aboard a moored facility.

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

Completed

Performance Criteria

- _____ 1. Section A, COX-01-____-AUX
- _____ 2. Section B, COX-02-____-AUX
- _____ 3. Section C, COX-03-____-AUX
- _____ 4. Section D, COX-04-____-AUX
- _____ 5. Section E, COX-05-____-AUX
- _____ 6. Section F, COX-06-____-AUX
- _____ 7. Section G, COX-07-____-AUX
- _____ 8. Section H, COX-08-____-AUX

Task COX-09-05-AUX (Continued)

_____ 9. Section I, COX-09-____-AUX

_____ 10. COX-____-____-AUX

Accomplished **QE's signature**_____ **Date**_____

QE's signature_____ **Date**_____

Comments

Name: _____

Task COX-09-06-AUX

Task **Underway Check Ride**

References Boat Crew Seamanship Manual, COMDTINST M16114.5 (series)
Auxiliary Operations Policy Manual, COMDTINST M16798.3 (series)
District SOPs, Policy Manuals, and other local Instructions

Conditions Performed underway on an Auxiliary Facility in calm sea conditions. Trainee must accomplish task without prompting or use of a reference. COX-01-01-AUX through COX-09-04-AUX **must** be satisfactorily completed prior to conducting this underway check ride.

Standards In response to the QE and being overseen by the Coxswain, the trainee must answer questions on, and perform the below listed evolutions for the Coxswain position.

NOTE: The QE may add tasks to the performance criteria if he/she feels it necessary to evaluate a trainee's readiness for qualification. The addition of any tasks will be reported to Commandant (G-OCX-2) via the Director of Auxiliary for possible inclusion in future revisions of the program.

Completed

Performance Criteria

- _____ 1. Conducted a pre-underway check off and confirmed the facility was within its stated operational limitations to perform the assigned mission.
- _____ 2. Conducted a pre-underway brief. Assessed crewmembers physical capabilities to perform mission, discussed safety issues, such as:
- a. Wearing of jewelry
 - b. Team coordination and communication
 - c. Operational Risk Management
- _____ 3. Ensured all crewmembers wore PFD's and had a good understanding of the requirements and use of the personnel survival equipment.

Task COX-09-06-AUX (Continued)

- _____ 4. Efficiently and safely handled the facility and communicated effectively with the crew while getting underway.
- _____ 5. Gave proper commands to the helm watch, used navigational charts, aids to navigation, and installed electronic navigation gear.
- _____ 6. Assigned lookout watch(es) and verified the safety of the facility based on the reports made by lookout.
- _____ 7. Responded to a Man-Overboard drill, and safely recovered a simulated PIW. (A life ring, life-like dummy, or other floating object can be used as PIW).
- _____ 8. Demonstrated proficiency and safety during a stern tow, including:
- a. Making preparations for taking a vessel in tow.
 - b. Communication with crewmembers.
 - c. Towing approach and station keeping.
 - d. Proper speed and towline considered.
 - e. Safety of and communications with personnel on towed boat.
- _____ 9. Demonstrated proficiency and safety during an alongside tow. (optional)
- _____ 10. Correctly plotted and ran three legs of a search pattern designated by the QE.
- _____ 11. Demonstrated proficiency while anchoring and weighing anchor.
- _____ 12. Used appropriate navigational sound signals when needed.
- _____ 13. Correctly piloted and labeled navigational charts during a three leg course run given by the QE. Some or all of the following were demonstrated, as needed, during the run:
- a. Correctly converted from true to compass course.
 - b. Speed, Time, and Distance computed.

- c. ETA computed within a reasonable time.

Task COX-09-06-AUX (Continued)

- d. Set and Drift calculated to correct course and speed.
- e. Fixes taken and properly labeled to verify facility's position.

- _____ 14. Kept the controlling unit informed of mission operations and conducted scheduled Position and Ops Normal Reports.
- _____ 15. Efficiently and safely moored the boat.
- _____ 16. Satisfactorily answered QEs questions on policies and procedures. Questions are limited to knowledge required by the qualification guide tasks, (e.g. engine casualties, SAR organization and responsibilities, MSAP, salvage policy, patrol commanders duties).
- _____ 17. Discussed and demonstrated knowledge of filling out and processing required reports.

Accomplished **QE's signature** _____ **Date** _____

QE's signature _____ **Date** _____

Comments

(Additional comments may be recorded on the back of this sheet)

NOTE- Comments should be made in detail. Tasks that were not performed to standards, require specific comments addressing what the deficiencies were and why, and what corrective action must be taken to be successful at the next check ride. **Only those tasks not successfully completed must be redone during the next QE Evaluation session.** The session should be conducted in a reasonable time frame. Each QE should initial on the line by the task that was successfully accomplished during the check ride they evaluated and then sign on the "Accomplished" and "Date" line. A copy of this task should accompany the letter for Recommend for Certification, to the Director.

CHAPTER 3 AUXILIARY COXSWAIN STUDY GUIDE

OVERVIEW

Introduction

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

In this section

This chapter contains nine sections.

Section	Title	See Page
A	Reading Assignment	3-2
B	Reading Assignment	3-3
C	Reading Assignment	3-5
D	Reading Assignment	3-13
E	Reading Assignment	3-16
F	Reading Assignment	3-22
G	Reading Assignment	3-30
H	Reading Assignment	3-35
I	Reading Assignment	3-44

NAME: _____

Section A. Reading Assignments - Crew Efficiency Factors and Team Coordination

Overview

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
COX-01-01-AUX	<ul style="list-style-type: none">• None assigned	

NAME: _____

Section B. Reading Assignments - Boat Characteristics and Stability

Overview

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
COX-02-01-AUX	<ul style="list-style-type: none"> Chapter 12, Section A, Boat Crew Seamanship Manual, COMDTINST M16114.5 (series) 	12-3
COX-02-02-AUX	<ul style="list-style-type: none"> None assigned 	
COX-02-03-AUX	<ul style="list-style-type: none"> None assigned 	
COX-02-04-AUX	<ul style="list-style-type: none"> None assigned 	
COX-02-05-AUX	<ul style="list-style-type: none"> None assigned 	
COX-02-06-AUX	<ul style="list-style-type: none"> None assigned 	
COX-02-07-AUX	<ul style="list-style-type: none"> None assigned 	
COX-02-08-AUX	<ul style="list-style-type: none"> None assigned 	
COX-02-09-AUX	<ul style="list-style-type: none"> None assigned 	
COX-02-10-AUX	<ul style="list-style-type: none"> Chapter 18, Section K, Boat Crew Seamanship Manual, COMDTINST M16114.5 (series) 	18-91

NAME: _____

COX-02-01-AUX: Describe the indicators of approaching heavy weather

-
1. Wind direction is the _____ heading _____, which the wind blows.
 2. Small Craft Advisories are posted when winds are expected up to _____ knots.
 3. _____ have violent vertical movement of air.
 4. _____ fog occurs when _____ air moves over _____
or _____.
 5. Typically, seawater freezes at or below _____ degrees F.
 6. The easiest and most effective way to minimize icing is to _____.
-

COX-02-10-AUX: Patch a hole or crack below the waterline

1. To prevent a crack from traveling, especially in fiberglass, _____
at _____ of the crack.
 2. Wooden conical plugs driven into a hole may do nothing more than _____
_____ and _____ to an already difficult
situation.
 3. The best method of _____ a hole in fiberglass is to _____ some
_____ type of material into it such as a _____, _____ or
_____.
-

NAME: _____

Section C. Reading Assignments - Boat Handling

Overview

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
COX-03-01-AUX	<ul style="list-style-type: none"> Chapter 9, Section B, and Chapter 10, Sections A, Boat Crew Seamanship Manual, COMDTINST M16114.5 (series) 	9-7 10-3
COX-03-02-AUX	<ul style="list-style-type: none"> Chapter 10, Sections A and B, Boat Crew Seamanship Manual, COMDTINST M16114.5 (series) 	10-3
COX-03-03-AUX	<ul style="list-style-type: none"> None assigned 	
COX-03-04-AUX	<ul style="list-style-type: none"> Chapter 1, Appendix A, Boat Crew Seamanship Manual, COMDTINST M16114.5 (series) 	1-27
COX-03-05-AUX	<ul style="list-style-type: none"> Chapter 10, Section D, Boat Crew Seamanship Manual, COMDTINST M16114.5 (series) 	10-57
COX-03-06-AUX	<ul style="list-style-type: none"> Chapter 10, Sections C, D and G Boat Crew Seamanship Manual, COMDTINST M16114.5 (series) 	10-51 10-57 10-93

Chapter 3: Coxswain Study Guide

NAME: _____

Task Number	Reading Assignment	See Page
COX-03-07-AUX	<ul style="list-style-type: none"> Chapter 10, Section F, Boat Crew Seamanship Manual, COMDTINST M16114.5 (series) 	10-73
COX-03-08-AUX	<ul style="list-style-type: none"> None assigned 	
COX-03-09-AUX	<ul style="list-style-type: none"> Chapter 10, Section E, Boat Crew Seamanship Manual, COMDTINST M16114.5 (series) 	10-67
COX-03-10-AUX	<ul style="list-style-type: none"> Chapter 10, Section D, Boat Crew Seamanship Manual, COMDTINST M16114.5 (series) 	10-57
COX-03-11-AUX	<ul style="list-style-type: none"> Chapter 10, Section H, Boat Crew Seamanship Manual, COMDTINST M16114.5 (series) 	10-101
COX-03-12-AUX	<ul style="list-style-type: none"> Chapter 10, Section H, Boat Crew Seamanship Manual, COMDTINST M16114.5 (series) 	10-101

NAME: _____

COX-03-01-AUX: State the forces that affect boat handling

1. A boat has two principle types of stability, _____ and _____.
 2. The center of gravity of a boat is fixed for stability and does not shift unless weight is _____, _____ or _____.
 3. A _____ moment is the force causing a vessel to react against a roll to return to an even keel.
 4. When a tidal current is going out it is called the _____; it will build up a _____ sea when running across a bar.
 5. When going into the current maneuverability is usually _____ as long as _____ is maintained.
 6. Eddy currents occur at _____, near points of land, and at _____.
 7. Waves are periodic _____ of the sea surface caused by _____.
 8. Breaking waves are the most _____ kind of waves for boat operations.
 9. The flow of water out of the propeller is called _____ current.
-

NAME: _____

COX-03-02-AUX: State the basic principles of boat handling

1. On a single screw boat, with sternway on and the rudder amidships, the stern will back to _____.
 2. On a single screw boat, when commencing forward motion from no way on the side force will throw the stern to _____.
 3. The distance your boat will travel after the engine has been disengaged is called _____.
 4. On a twin screw boat the starboard screw is _____ handed and the port screw is _____ handed.
 5. On a twin screw boat with the port screw astern and the starboard screw stopped the stern will go to _____.
 6. On a twin screw boat with the port screw astern and the starboard screw ahead the boat will pivot to _____.
-

COX-03-04-AUX: Conduct a pre-underway check-off for the facility

1. When briefing the crew you should explain the _____ of the mission.
 2. Before getting underway, you should ensure that all _____ gear is safely tied down or _____.
 3. All _____ necessary to perform the mission is onboard.
 4. Engine controls should be tested in both _____ and _____ and the reaction time should be noted.
-

NAME: _____

COX-03-05-AUX: Get the boat away from a dock

1. When clearing with a single screw boat and no wind or current, the coxswain puts the engine ahead with the rudder at amidships, moves ahead slowly, and applies right rudder to _____.
 2. When clearing with a single screw boat while being set against the dock, after the stern is clear you should cast off the _____ spring line and shift the rudder.
 3. When clearing with a twin screw boat, port side to, and no wind or current, go ahead on the starboard engine, rudder _____, hold _____ line.
-

COX-03-06-AUX: Maneuver and come about in a narrow channel

1. The effect of current that causes the boat to veer off from the near bank when traveling in a straight line is called _____ cushion.
 2. Bank cushion occurs only when operating in _____ to the bank.
 3. The force that has the effect of moving the stern into the bank is called bank _____.
 4. The combined effect of bank cushion and bank suction may cause a boat to veer off toward the _____ bank.
 5. Bank cushion and bank suction is strongest when the bank of a channel is _____.
 6. In extremely narrow channels where bank cushion and bank suction is expected, proceed at a very _____.
 7. _____ is the _____ or _____ of water in a river.
 8. _____, _____, and _____ are factors that affect
-

NAME: _____

_____ a boat's turn in a sharp bend or narrow channel.

COX-03-07-AUX: Operate the boat and apply its handling characteristics in following, head and beam seas

1. _____ is the up and down motion of the bow and stern.
 2. _____ is the side to side motion as each side goes up and down.
 3. The vertical motion the entire boat makes is called _____.
 4. Look and drive for the path of _____.
 5. Keep one hand constantly on the _____.
 6. _____ only because you cannot safely make progress in a _____.
 7. Maneuver only to keep a _____ aspect to the weather.
 8. Large seas run at over _____ knots.
 9. If running with the seas and a wave is gaining astern, _____ it _____ on the _____.
-

NAME: _____

COX-03-09-AUX: Maneuver the boat alongside another boat with no way on

1. When you determine your approach, consider prevailing weather and currents, location, _____, _____.
 2. If prudent, have the vessel _____ a _____ and _____ to make your approach as smooth as possible for both vessels.
 3. In some instances, a _____ may be used in coming alongside a larger vessel underway.
 4. Make contact with the _____ sections of your boat.
-

COX-03-10-AUX: Moor the boat to a dock

1. If the wind or current is from astern a _____ spring line is used instead of a bow spring line.
 2. When mooring a single screw boat, with no wind or current, make your approach using an angle of approximately _____.
 3. When mooring a single screw boat from leeward, against the current, you should make your approach using a _____ angle.
 4. When mooring a twin screw boat, you should use as _____ an angle as safely possible.
 5. Wind will cause the bow of the boat to _____ off.
-

NAME: _____

COX-03-11-AUX: Anchor the boat

1. When approaching the anchorage, if possible head _____ the wind or current.
 2. If there is a jerk or _____, the anchor is most likely _____.
 3. While anchored you should keep a _____ posted at all times.
-

COX-03-12-AUX: Weigh the boat's anchor

1. When approaching the anchor, the slack in the line should be taken up _____ to prevent fouling your screw(s).
 2. When the anchor line is tending _____, the anchor will normally break free from the bottom.
 3. If the anchor refuses to break free, _____ the line around the forward bitt and go forward a few feet.
 4. If the anchor still won't break free move slowly in a wide circle to change the _____ of pull.
-

NAME: _____

Section D. Reading Assignments - Rules of the Road

Overview

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
COX-04-01-AUX	<ul style="list-style-type: none"> None assigned 	
COX-04-02-AUX	Part D, Navigation Rules International-Inland, COMDTINST M16672.2 (series)	114
COX-04-03-AUX	<ul style="list-style-type: none"> Part C, Navigation Rules International-Inland, COMDTINST M16672.2 (series) 	38

NAME: _____

COX-04-02-AUX: Execute commonly used sound signals

1. The doubt or danger signal, _____ short or rapid blasts, shall be sounded when a vessel fails to _____ the intention of another vessel.
 2. When maneuvering, one short blast means - I am altering my course to _____.
 3. When maneuvering, _____ short blast means - I am operating astern propulsion.
 4. A power driven vessel, making way sounds one _____ blast at intervals of not more than _____ minutes.
 5. A vessel engaged in towing sounds one prolonged blast followed by _____ short blasts with an interval of not more than _____ minutes.
-

NAME: _____

COX-04-03-AUX: Set the proper navigation lights for common operational boat evolutions

1. Light rules shall be complied with from _____ to _____.
 2. For larger vessels, which carry more than one light there must always be at least one light visible from _____ direction.
 3. The visibility of the masthead light for a vessel less than 12 meters in length is _____ miles.
 4. When towing alongside in inland waters you must show two _____ lights aft.
 5. When towing astern with a vessel less than 50 meters in length, length of the tow less than 200 Meters, you must display in addition to your normal running lights, one _____ light aft.
 6. A vessel less than 50 meters in length, at anchor, displays a single _____ light where _____ seen.
-

NAME: _____

Section E. Reading Assignments - Piloting and Navigating

Overview

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
COX-05-01-AUX	<ul style="list-style-type: none"> None assigned 	
COX-05-02-AUX	<ul style="list-style-type: none"> None assigned 	
COX-05-03-AUX	<ul style="list-style-type: none"> Chapter 14, Section C, Boat Crew Seamanship Manual, COMDTINST M16114.5 (series) 	14-37
COX-05-04-AUX	<ul style="list-style-type: none"> None assigned 	
COX-05-05-AUX	<ul style="list-style-type: none"> Chapter 14, Section D, Boat Crew Seamanship Manual, COMDTINST M16114.5 (series) 	14-61
COX-05-06-AUX	<ul style="list-style-type: none"> None assigned 	
COX-05-07-AUX	<ul style="list-style-type: none"> Chapter 14, Section D, Boat Crew Seamanship Manual, COMDTINST M16114.5 (series) 	14-61
COX-05-08-AUX	<ul style="list-style-type: none"> Chapter 14, Section D, Boat Crew Seamanship Manual, COMDTINST M16114.5 (series) 	14-61

NAME: _____

Task Number	Reading Assignment	See Page
COX-05-09-AUX	<ul style="list-style-type: none"> Chapter 14, Section D, Boat Crew Seamanship Manual, COMDTINST M16114.5 (series) 	14-61
COX-05-10-AUX	<ul style="list-style-type: none"> None assigned 	
COX-05-11-AUX	<ul style="list-style-type: none"> Chapter 14, Section E, Boat Crew Seamanship Manual, COMDTINST M16114.5 (series) 	14-133

NAME: _____

COX-05-03-AUX: Determine a compass course from a true course

1. The magnetic compass reading must be corrected for _____ and _____.
 2. Variation is the angular difference in degrees between _____ and _____ north.
 3. The amount the magnetic compass needle is deflected by magnetic influences of the boat is called _____.
 4. Deviation changes with the _____, it is not affected by the _____ of the boat.
 5. You apply _____ to the compass course to get the magnetic course and then you apply _____ to the magnetic course to get the true course.
 6. When correcting you must add _____ errors and _____ westerly errors.
-

NAME: _____

COX-05-05-AUX: Pilot the boat using Dead Reckoning techniques

-
1. Dead reckoning is the process of determining a boat's approximate position by applying its course, speed, and time from its _____ known position.
 2. The key elements of dead reckoning are the course steered and the distance traveled without _____ to current, wind, or other external forces.
 3. Only courses _____ are used to determine a DR.
 4. DR plots should be labeled at least every _____ and at every _____ or _____ change.
 5. Start a new _____ plot from each _____ or _____.
-

COX-05-07-AUX: Determine the position of a boat using RADAR ranges and bearings

-
1. The line of _____ is common to all methods of piloting.
 2. If you have a single LOP you know you are _____ on that line.
 3. An ideal fix has _____ or more LOPs intersecting at a single point and the LOPs have a separation of at least _____ degrees, but not more than _____ degrees.
 4. The useful operational range of a radar on a boat is limited mainly by the _____ of the _____ the _____.
 5. Radar fixes are plotted in the same manner as _____ fixes.
 6. The disadvantages of radar include _____ failure and _____ and _____ limitations.
-

COX-05-08-AUX: Determine the position of a boat using

NAME: _____

GPS/DGPS (If equipped)

1. GPS is a _____ system of _____ satellites operated by the _____.
 2. GPS is accurate to a radius within _____ meters of the position shown about _____% of the time.
-

COX-05-09-AUX: Determine the position of a boat using LORAN C (If equipped)

1. LORAN-C _____ enough for precise _____, such as _____ a _____.
 2. LORAN-C is a pulsed, _____ system.
 3. LORAN-C receivers measure the _____ (_____) between the _____ transmitter site signal and the _____ transmitter site signal to obtain a single LOP.
 4. A _____ of LORAN-C transmitting stations produce a _____.
 5. LORAN-C is accurate to better than _____ nautical mile (NM).
-

NAME: _____

COX-05-11-AUX: River sailing, (Locks, Dams and Flood Warnings), and pass through a Lock (Optional)

1. Locks and dams provide a navigable _____ for river traffic.
 2. _____ is created by runoff or drainage from a heavy rain or melting snow.
 3. _____ is low water level.
 4. During flood conditions, dangers include: currents are _____, channels _____, obstructions can be _____, drift hazards _____, _____ can be broken and _____ are reduced.
-

NAME: _____

Section F. Reading Assignments - Search and Rescue

Overview

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
COX-06-01-AUX	<ul style="list-style-type: none"> Chapter 15, Section A, Boat Crew Seamanship Manual, COMDTINST M16114.5 (series) 	15-3
COX-06-02-AUX	<ul style="list-style-type: none"> Chapter 15, Section C, Boat Crew Seamanship Manual, COMDTINST M16114.5 (series) 	15-11
COX-06-03-AUX	<ul style="list-style-type: none"> Chapter 15, Section B, Boat Crew Seamanship Manual, COMDTINST M16114.5 (series) 	15-9
COX-06-04-AUX	<ul style="list-style-type: none"> Chapter 15, Sections D, E and F, Boat Crew Seamanship Manual, COMDTINST M16114.5 (series) 	15-23 15-31 15-53
COX-06-05-AUX	<ul style="list-style-type: none"> Chapter 15, Section E, Boat Crew Seamanship Manual, COMDTINST M16114.5 (series) 	15-31

NAME: _____

Task Number	Reading Assignment	See Page
COX-06-06-AUX	<ul style="list-style-type: none"> Chapter 15, Section E, Boat Crew Seamanship Manual, COMDTINST M16114.5 (series) 	15-31
COX-06-07-AUX	<ul style="list-style-type: none"> Chapter 15, Section E, Boat Crew Seamanship Manual, COMDTINST M16114.5 (series) 	15-31
COX-06-08-AUX	<ul style="list-style-type: none"> Chapter 15, Section E, Boat Crew Seamanship Manual, COMDTINST M16114.5 (series) 	15-31
COX-06-09-AUX	<ul style="list-style-type: none"> Chapter 15, Section E, Boat Crew Seamanship Manual, COMDTINST M16114.5 (series) 	15-31
COX-06-10-AUX	<ul style="list-style-type: none"> None assigned 	
COX-06-11-AUX	<ul style="list-style-type: none"> Chapter 11, Section F, Boat Crew Seamanship Manual, COMDTINST M16114.5 (series) 	11-23

NAME: _____

COX-06-01-AUX: Organization and responsibility

1. SAR coordination responsibility in the United States is divided between the _____ and the _____.
 2. Maritime SAR is divided in two major areas of responsibility: Atlantic maritime and _____.
 3. One SAR objective is to minimize search _____ and crew _____ during SAR missions.
 4. The majority of SAR cases occur within _____ miles of _____.
-

COX-06-02-AUX: Legal aspects and USCG policy

1. _____ are one of the most important tools available to people in distress for assisting SAR authorities.
 2. Reports of audible beacon alerts indicate a beacon has been _____.
 3. The Coast Guard responds to many _____.
 4. _____ and _____ flares are recognized around the world as marine and aviation emergency signals.
 5. A _____ is a case where information is reported with the intent to deceive.
 6. Coast Guard resources normally do not provide _____ in _____ cases where there is _____.
-

NAME: _____

COX-06-03-AUX: SAR emergency phases

1. The three SAR Emergency Phases are uncertainty phase, alert phase and _____ phase.
 2. Emergency phases are based on the level of concern for the _____ of persons or craft, which may be _____.
 3. A(n) _____ exists when there is knowledge of a situation that may need to be monitored, or have more information gathered but does not require dispatching resources.
 4. A(n) _____ is assigned when an aircraft, ship, or other craft or persons on board are having difficulty and may need assistance but are not in immediate danger.
 5. The _____ when there is _____ that an aircraft, ship, or other craft or persons on board is in danger and requires immediate assistance.
-

NAME: _____

COX-06-04-AUX: State the basic concepts related to search planning

1. Datum is the _____ location of the distressed vessel, _____ for _____ over a given _____.
 2. The most important items of information to initially record are nature of _____, _____, radio call sign and _____ craft.
 3. The search area is a geographic area determined by the SMC as most likely to _____.
 4. A search description, using the corner method, gives the latitude and longitude of each _____.
 5. A search description, using the _____ method, uses two or more landmarks as boundaries for the search area along a shoreline.
 6. Sweep width is a distance measured on _____ of an _____.
 7. Track spacing is the _____ between adjacent parallel legs within a search area.
 8. The search radius for an Initial Response search area is _____NM.
 9. Initial Track Spacing for a vessel less than 15 feet is _____NM in good conditions.
-

NAME: _____

COX-06-05-AUX: Plot a Single Unit Expanding Square Search Pattern (SS)

-
1. The _____ is used when the last known position of a search object has a high degree of accuracy, the search area is small, and a concentrated search is desirable.
 2. In the (SS) Pattern, the first leg is normally in the direction of the search object's drift and all turns are made _____ degrees to starboard.
-

COX-06-06-AUX: Plot a Single Unit Sector Search Pattern (VS)

-
1. The VS Pattern is used when datum is established with a high degree of confidence but the search object is _____ such as a _____.
 2. The first leg begins in the _____ direction that the search object is drifting toward.
 3. All turns are _____ degrees to the right.
-

NAME: _____

COX-06-07-AUX: Plot a Single Unit Parallel Search Pattern (PS)

-
1. The (PS) pattern is used when there is _____ that the search object could be anywhere in the search area.
 2. Creeping Line (CS) search patterns are the same as parallel patterns with the exception that the _____ are run parallel to the short side (minor axis) of the search area.
-

COX-06-08-AUX: Plot a Single Unit Trackline Return Search Pattern (TSR)

-
1. TSR is used to search when the only information available on the missing vessel is the _____ of the search object.
 2. In darkness or extremely low visibility, surface search vessels should periodically stop their engines at selected point in the search area and conduct a _____ for a short period.
-

COX-06-09-AUX: Plot a Barrier Search Pattern (XSB)

-
1. The barrier search pattern is used in areas with _____, such as a _____.
-

NAME: _____

COX-06-11-AUX: Obtain distress information and pass to the controlling shore unit

-
1. A _____ call has _____ over all other _____ and shall not be addressed to a particular station.
-

NAME: _____

Section G. Reading Assignments - Rescue and Delivery

Overview

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
COX-07-01-AUX	<ul style="list-style-type: none"> Chapter 16, Section A, Boat Crew Seamanship Manual, COMDTINST M16114.5 (series) 	16-4
COX-07-02-AUX	<ul style="list-style-type: none"> Chapter 16, Section A, Boat Crew Seamanship Manual, COMDTINST M16114.5 (series) 	16-4
COX-07-03-AUX	<ul style="list-style-type: none"> Chapter 16, Section A, Boat Crew Seamanship Manual, COMDTINST M16114.5 (series) 	18-69
COX-07-04-AUX	<ul style="list-style-type: none"> Chapter 19, Boat Crew Seamanship Manual, COMDTINST M16114.5 (series) 	19-3
COX-07-05-AUX	<ul style="list-style-type: none"> Chapter 18, Sections A and B, Boat Crew Seamanship Manual, COMDTINST M16114.5 (series) 	18-1 18-7
COX-07-06-AUX	<ul style="list-style-type: none"> None assigned 	

NAME: _____

COX-07-01-AUX: Determine the approach and station keep

1. There are two basic approaches: the _____ approach and the _____ approach.
 2. Perform the _____ approach with the bow _____ into the greatest _____ of _____ resistance at the time of pickup.
 3. Perform the _____ approach with the _____ coming from _____ the boat.
 4. Use the windward approach when the _____ is in a _____ or a _____ is impossible.
-

COX-07-02-AUX: Recover a person from the water using the direct pickup method

1. The first person to realize someone has fallen overboard should spread the _____.
 2. The coxswain should normally turn the boat in the _____ the man fell overboard.
 3. Another option, particularly in a restricted waterway, is to stop, _____ and _____, the return to the PIW.
 4. The coxswain should slow the boat as the approach is made so it will be nearly _____ when the PIW comes abeam.
 5. Generally the coxswain will maneuver the boat to the _____ side of the PIW so the boat will be set _____ the PIW.
 6. The determining conditions for selecting a recovery method is whether the PIW is conscious, _____, or _____.
-

NAME: _____

COX-07-03-AUX: Dewater a boat taking on water using a portable pump (Optional)

1. A coxswain should always brief crewmembers on what _____ to follow before beginning to dewater a disabled vessel.
 2. _____ of the crew is the first priority.
 3. How you dewater a vessel depends on the _____ that exist at the scene.
 4. The distressed vessel should not be boarded if it seems _____ and could possibly _____.
 5. De-watering with a drop pump is done with the pump placed on the _____ boat.
-

NAME: _____

COX-07-04-AUX: Conduct a basket hoist to transfer personnel to a helicopter

1. Boat-helicopter operations require team effort, alertness, and cooperation among crewmembers aboard both the _____ and the _____.
 2. The boat should be underway so the relative wind is between _____ to _____ degree off its port bow.
 3. Hoisting is usually accomplished with the helicopter hovering off the _____ side of the boat.
 4. Ensure all _____ including head, eye, hearing and hand protection.
 5. Stow or secure all _____ on deck.
 6. Lower and secure all antennas, booms, rigging and _____.
 7. Designate one crewmember to give _____ to the hoist operator.
 8. Brief the crew and _____ to be _____ regarding the type of hoist to be expected.
 9. If either the coxswain or pilot feel the operation is unsafe, then a _____ should be conducted.
 10. Always allow the rescue device to contact the boat, water, or _____, before you touch it.
 11. The multi-jointed (MJ) _____ is the primary device for hoisting survivors from land or sea during helicopter rescue operations.
 12. The _____ is used to transfer an injured or unconscious person in any weather condition.
 13. Use of a _____ minimizes the time a pilot must maintain a precise, stable hover without having a reference point.
-

NAME: _____

COX-07-05-AUX: Approach a burning boat and recover personnel

1. As a boat crewmember, your primary responsibility in emergency assistance is _____ not _____. Boat crews must be aware of their limited roles in emergency assistance, particularly when responding to _____.

 2. Fire is the greatest single _____ for _____ on a boat. The possibility of fire can never be completely _____ and is always a _____ to watch for and _____.
-

NAME: _____

Section H. Reading Assignments - Towing and Salvage

Overview

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
COX-08-01-AUX	<ul style="list-style-type: none"> Appendix 17-A, Boat Crew Seamanship Manual, COMDTINST M16114.5 (series) 	17-77
COX-08-02-AUX	<ul style="list-style-type: none"> Chapter 17, Section B, Boat Crew Seamanship Manual, COMDTINST M16114.5 (series) 	17-7
COX-08-03-AUX	<ul style="list-style-type: none"> Chapter 17, Section C, Boat Crew Seamanship Manual, COMDTINST M16114.5 (series) 	17-17
COX-08-04-AUX	<ul style="list-style-type: none"> Chapter 17, Section D and Appendix-A, Boat Crew Seamanship Manual, COMDTINST M16114.5 (series) 	17-37 17-77
COX-08-05-AUX	<ul style="list-style-type: none"> Chapter 17, Section D, Boat Crew Seamanship Manual, COMDTINST M16114.5 (series) 	17-31

Chapter 3: Coxswain Study Guide

NAME: _____

Task Number	Reading Assignment	See Page
COX-08-07-AUX	<ul style="list-style-type: none">Chapter 17, Section D, Boat Crew Seamanship Manual, COMDTINST M16114.5 (series)	17-31
COX-08-08-AUX	<ul style="list-style-type: none">Chapter 17, Boat Crew Seamanship Manual, COMDTINST M16114.5 (series)	17-31
COX-08-09-AUX	<ul style="list-style-type: none">None assigned	

NAME: _____

COX-08-01-AUX: State general towing safety precautions

1. All _____ from the disabled boat should be removed if necessary.
 2. The coxswain should ensure that all people on board the boat to be towed have donned their _____.
 3. Heaving lines should be thrown _____ the disabled boat.
 4. _____ should be established and maintained.
 5. Personnel on both boats should be kept clear of the _____.
 6. Towlines should be _____ tended before securing and never secured using _____ hitches.
 7. The breaking strength of all shackles used should be _____ to or _____ than the breaking strength of the towline.
 8. Towlines should always be kept clear of the boat's _____.
 9. Boats beyond the capability of the towing vessel should _____ be towed.
 10. Boats should never be towed at speeds beyond the _____ of the craft.
 11. When towing sudden _____ and _____ should be avoided.
 12. A _____ can be used to prevent yawing of the tow
 13. If practical, some one on the towed craft should man the _____.
 14. A constant _____ towing should be maintained.
-

NAME: _____

COX-08-02-AUX: State the principle forces that effect small boat towing

1. Static forces can be minimized by beginning the tow _____.
 2. Speed should be increased slowly and in the _____ direction as the disabled vessel is heading.
 3. Dynamic forces are caused by the _____ force resulting from the boat through the water, the _____ and direction of the wind, and the _____ and direction of the seas.
 4. Friction is created by the movement of the _____ layer through the water.
 5. With deep draft boat, a high rate of _____ puts severe strain on the deck fittings and the towline.
 6. Shock loading can be reduced by decreasing _____ or increasing the _____.
-

NAME: _____

COX-08-03-AUX: Inspect the towline and associated hardware

1. The towline should be inspected frequently for damage resulting from _____, abrasion, fusing, and snagging.
 2. Heavily used towlines will indicate reduced _____ strength and overloading by its becoming _____ or hard.
 3. The two types of bridles which, should not be used routinely, are the cabin and the _____ bridles.
 4. Bitts, cleats, chocks, should be inspected frequently for _____ and _____ and working surface smoothness.
-

NAME: _____

COX-08-04-AUX: Make preparations for taking a vessel in tow

1. In determining towing speed the primary factor to be considered is the _____ of the boat and its occupants.
 2. To determine the maximum towing speed of a displacement hull boat use the formula
Speed (in knots) = 1.34 times the square root of the _____
at the water line.
 3. Safe towing speed is maximum towing speed decreased by at least __%.
 4. The recommended towing speed for planing hulls is the _____ as for a displacement hull.
 5. All equipment should be assembled and checked for _____.
 6. If boat to boat communications cannot be established through installed radio equipment, you should provide a _____ radio to someone on the distressed craft.
 7. Persons aboard the distressed craft should be directed to _____ their PFD's.
 8. The people on the towed boat should be _____ on the procedures to be used.
-

NAME: _____

COX-08-05-AUX: Take a vessel in stern tow

1. Make the approach at the _____ speed necessary to _____.
 2. In calm conditions, make the approach at an angle that allows the crew the best opportunity to _____.
 3. In rough conditions, make your approach _____ the _____ and _____. If the wind is _____ from the seas, make your approach into the _____. This usually _____ control for the coxswain and ensures the most _____ for the crew.
 4. _____ leg bridles are generally used for towing sailboats.
 5. Avoid connecting the towline to a _____ fitting on the towed vessel. Use a _____ for an equal amount of _____ on both sides of the bow.
 6. If the towing vessel is not equipped with a towline reel, _____ the towline carefully so that it will not _____ or _____. In heavy weather, use caution to ensure line is not _____ and into the _____.
-

NAME: _____

COX-08-06-AUX: Use a shackle or kicker/skiff hook assembly connection to take a vessel in stern tow

1. On smaller, trailer-able boats, the trailer eye is frequently the _____ available to attach a _____.
 2. To reduce the hazard of injuries to personnel aboard both boats during hookup, a kicker/skiff hook assembly, used in conjunction with a _____, is used to make the connection.
 3. Shackles should only be used in _____ or _____ weather conditions.
 4. After tightening the shackle pin it should be _____.
-

COX-08-07-AUX: Take a boat in alongside tow

1. When set up properly, an alongside tow allows two vessels to be _____.
 2. Rig all available _____, except one for _____ as the tow approaches, in potential _____.
 3. If the stern tow required a bridle, disconnecting _____ or all of the _____ may be the only option to _____ a _____ for the alongside _____.
 4. For maximum control of a tow, all _____ should be as _____ as _____.
-

NAME: _____

COX-08-08-AUX: Moor a disabled vessel in alongside tow to a float or pier

-
1. To moor an alongside tow safely and skillfully the coxswain must _____ well ahead of time and _____, place the _____ vessel against the dock or mooring, make an approach _____ the _____ and _____ and, if possible, moor on the _____ (_____) side of a dock or pier.
-

NAME: _____

Section I. Reading Assignments – Auxiliary Specific Tasks

Overview

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
COX-09-01-AUX	<ul style="list-style-type: none">• None assigned	
COX-09-02-AUX	<ul style="list-style-type: none">• None assigned	
COX-09-03-AUX	<ul style="list-style-type: none">• None assigned	
COX-09-04-AUX	<ul style="list-style-type: none">• None assigned	
COX-09-05-AUX	<ul style="list-style-type: none">• None assigned	