ERRATA SHEET

Auxiliary Boat Crew Qualification Guide, Vol. III, PWC Operator,
COMDTINST M16794.54

Table of Contents, **CHANGE**: Chapter 1, Section B page number to read 1-3 vice 1-2

Appendix B, paragraph 1, ninth line, **CHANGE** to read Form CG-2736-C. vice CG-2736.

U.S. Department of Transportation
United States Coast Guard

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COMMANDANT NOTICE 16794

Subj: CH-1 TO AUXILIARY BOAT CREW QUALIFICATION GUIDE, VOLUME II: COXSWAIN, COMDTINST M16794.53

1. PURPOSE. This Notice provides changes to the Auxiliary Boat Crew Qualification Guide, Volume II: Coxswain, COMDTINST M16794.53.

2. ACTION. Area and district commanders, commanders of maintenance and logistics commands, and commanding officers of headquarters units shall ensure units under their command overseeing or directing Auxiliary operations and Auxiliarists at all levels become familiar with, and adhere to this Notice.

3. DIRECTIVES AFFECTED. None.

4. SUMMARY. The changes are a compilation of and editorial corrections made since the Manual was published and the removal of tasks that are not considered essential for basic qualification.

5. PROCEDURE. Remove and insert the following pages:

Remove	Insert
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Appendix A	Appendix A, CH-1
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Terry M. Cross
Assistant Commandant for Operations

Encl: (1) CH-1 TO AUXILIARY BOAT CREW QUALIFICATION GUIDE, VOLUME II: COXSWAIN, COMDTINST M16794.53

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COX-09-04-AUX *None assigned*
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Appendix A RECORD OF COMPLETED TASKS COXSWAIN

Trainee's Name: _____ Member Number: _____

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

Section B ***Boat Characteristics, Stability, and Engineering***			
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		

Section C ***Boat Handling***			
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		
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 **(Waiverable by DIRAUX)**		
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		

Section D ***Rules of the Road***			
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		
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 **(Waiverable by DIRAUX)**		

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-07-05-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		
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-09-03-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	None
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
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ACX-3-1-04	COX-07-01-AUX COX-08-04-AUX COX-08-05-AUX

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OLD TASK	NEW TASK
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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	None
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	None
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	None
None	COX-08-03-AUX
None	COX-09-04-AUX
None	COX-09-05-AUX

Chapter 2 Coxswain Qualification Tasks

Overview

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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-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**_____

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	2-15
COX-03-02-AUX	State The Basic Principles Of Boat Handling	2-16
COX-03-03-AUX	State The Operational Limitations And Characteristics Of The Facility Operating On	2-17
COX-03-04-AUX	Complete A Pre-Underway Check Off For The Facility	2-19
COX-03-05-AUX	Get The Boat Away From The Dock	2-22
COX-03-06-AUX	Maneuver And Come About In A Narrow Channel	2-23
COX-03-07-AUX	Operate The Boat And Apply Its Handling Characteristics In Following, Head And Beam Seas	2-24
COX-03-08-AUX	Maneuver A Boat In A River Or Narrow Channel **(Waiverable by DIRAUX)**	2-26
COX-03-09-AUX	Maneuver The Boat Alongside Another Boat With No Way On	2-28
COX-03-10-AUX	Moor The Boat To A Dock	2-29
COX-03-11-AUX	Anchor The Boat	2-30
COX-03-12-AUX	Weigh The Boat's Anchor	2-32

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.

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-03-05-AUX

Task	**Get the Boat Away from the Dock**
References	Chapter 10, Boat Crew Seamanship Manual, COMDTINST M16114.5 (series)
Conditions	Performed at the dock in calm sea and wind conditions. All mooring lines must be attached before task begins. Adjust operation for any wind or current.
Standards	In response to the mentor, the trainee must perform the steps listed below. Trainee must give verbal commands for all line handling procedures.

Completed	**Performance Criteria**
_____	1. Briefed the crew on the procedures to be used for getting underway and their assigned duties.
_____	2. Stated and compensated for the expected effects of the wind and current.
_____	3. Gave commands for all line handling in a loud/clear voice and acknowledged the responses of the crewmember(s).
_____	4. All lines brought aboard except the bow spring line, (if needed).
_____	5. With the use of walking fenders, cleared stern of the boat by going ahead slowly and springing the stern out, (if bow spring line used).
_____	6. Took in bow spring line when stern well clear of the dock.
_____	7. Boat was eased out from the dock until clear of all obstacles with room to move ahead.

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.

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 it 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 (Waiverable by DIRAUX)**
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	2-34
COX-04-02-AUX	Execute Commonly Used Sound Signals	2-35
COX-04-03-AUX	Set The Proper Navigation Lights For Common Operational Evolutions	2-37

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	2-39
COX-05-02-AUX	Obtain A Visual Fix	2-40
COX-05-03-AUX	Determine A Compass Course For True Course	2-42
COX-05-04-AUX	Sketch A Chart Of The Local Operating Area	2-43
COX-05-05-AUX	Pilot The Boat Using Dead Reckoning Techniques	2-44
COX-05-06-AUX	Pilot A Boat Using "Seaman's Eye"	2-45
COX-05-07-AUX	Determine The Position Of A Boat Using Radar Ranges And Bearing (If Equipped)	2-46
COX-05-08-AUX	Determine The Position Of A Boat Using GPS/DGPS (If Equipped)	2-47
COX-05-09-AUX	Determine The Position Of A Boat Using LORAN C (If Equipped)	2-48
COX-05-10-AUX	Determine Course To Steer And Speed Over Ground (SOG) Allowing For Set And Drift	2-49
COX-05-11-AUX	River Sailing (Locks, Dams And Flood Warnings) And Pass Through A Lock **(Waiverable by DIRAUX)**	2-51

Name: _____

Task COX-05-01-AUX

Task	**Identify Navigational Publications**
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 intended course and designated speed 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 intended course, current direction, and course to steer must be plotted within three degrees. Speed 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 (Waiverable by DIRAUX)**
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 pasing through the lock.
_____	4. Stated understanding of safety considerations navigatiing 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	2-53
COX-06-02-AUX	Legal Aspects And USCG Policy	2-54
COX-06-03-AUX	SAR Emergency Phases	2-56
COX-06-04-AUX	State The Basic Concepts Related To Search Planning	2-57
COX-06-05-AUX	Plot A Single Unit Expanding Square Search Pattern (SS)	2-59
COX-06-06-AUX	Plot A Single Unit Sector Search Pattern (VS)	2-60
COX-06-07-AUX	Plot A Single Unit Parallel Search Pattern (PS)	2-61
COX-06-08-AUX	Plot A Single Unit Trackline Return Search Pattern (TSR)	2-62
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COX-06-10-AUX	Execute A Search Pattern	2-64
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Name: _____

Task COX-06-01-AUX

Task	**Organization and Responsibility**
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 state the basic concepts related to searching as outlined in the steps below.

Completed	**Performance Criteria**
_____	1. Stated the Coast Guard's geographic areas of responsibility for SAR.
_____	2. Stated the duties and responsibilities of the SMC.
_____	3. Stated the duties and responsibilities of the OSC.
_____	4. Stated the duties and responsibilities of the SRU.

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

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, (center point method), 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, (corner point method), 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 traineewill 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 objecives 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	2-69
COX-07-02-AUX	Recover A Person From The Water Using The Direct Pick Up Method	2-70
COX-07-05-AUX	Approach A Burning Boat And Recover Personnel	2-72
COX-07-06-AUX	State The Action To Take If Your Boat Was Aground	2-74

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	Chapter16, 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-07-05-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.

Accomplished 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).

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	2-77
COX-08-02-AUX	State The Principal Forces That Effect Small Boat Towing	2-78
COX-08-03-AUX	Inspect The Towline And Associated Hardware	2-80
COX-08-04-AUX	Make Preparations For Taking A Vessel In Tow	2-81
COX-08-05-AUX	Take A Vessel In Stern Tow	2-83
COX-08-06-AUX	Use A Shackle Or Kicker/Skiff Hook Assembly Connection To Take A Vessel In Stern Tow	2-85
COX-08-07-AUX	Take A Boat In Alongside Tow	2-87
COX-08-08-AUX	Moor A Disabled Vessel In Tow To A Float Or Pier	2-89
COX-08-09-AUX	Discuss Procedures For Re-Floating A Grounded Vessel Using A Straight Ahead Pull	2-90

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, towlines 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.

Completed	**Performance Criteria**
_____	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.

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.

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. 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.

Mentor signature_____ **Date**_____

Accomplished

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	2-93
COX-09-03-AUX	Complete Administrative Tasks (Reports, Orders, Etc.)	2-95
COX-09-04-AUX	Perform A Night Navigation And Piloting Exercise **(Waiverable by DIRAUX)**	2-96
COX-09-05-AUX	Dockside Oral Exam	2-98
COX-09-06-AUX	Underway Check Ride	2-100

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-09-03-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

Task COX-09-06-AUX (Continued)

_____ 3. Ensured all crewmembers wore PFD's and had a good understanding of the requirements and use of the personnel survival equipment.

_____ 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.

_____ 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:

Task COX-09-06-AUX (Continued)

a. Correctly converted from true to compass course.

b. Speed, Time, and Distance computed.

c. ETA computed within a reasonable time.

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	3-33
I	Reading Assignment	3-42

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	• 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	• Chapter 12, Section A, Boat Crew Seamanship Manual, COMDTINST M16114.5 (series)	12-3
COX-02-02-AUX	• None assigned	
COX-02-03-AUX	• None assigned	
COX-02-04-AUX	• None assigned	
COX-02-05-AUX	• None assigned	
COX-02-06-AUX	• None assigned	
COX-02-07-AUX	• None assigned	
COX-02-08-AUX	• None assigned	
COX-02-09-AUX	• None assigned	

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 _____ _____.

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.

NAME: _____

8. _____, _____, and _____ are factors that affect 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. Large seas run at over _____ knots.
7. 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. 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: _____

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

---

1. Light rules shall be complied with from _____ to _____.

2. The visibility of the masthead light for a vessel less than 12 meters in length is _____ miles.

3. When towing alongside in inland waters you must show two _____ lights aft.

4. 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.

5. 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	• None assigned	
COX-05-02-AUX	• None assigned	
COX-05-03-AUX	• Chapter 14, Section C, Boat Crew Seamanship Manual, COMDTINST M16114.5 (series)	14-37
COX-05-04-AUX	• None assigned	
COX-05-05-AUX	• Chapter 14, Section D, Boat Crew Seamanship Manual, COMDTINST M16114.5 (series)	14-61
COX-05-06-AUX	• None assigned	
COX-05-07-AUX	• Chapter 14, Section D, Boat Crew Seamanship Manual, COMDTINST M16114.5 (series)	14-61
COX-05-08-AUX	• Chapter 14, Section D, Boat Crew Seamanship Manual, COMDTINST M16114.5 (series)	14-61

NAME: _____

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

---

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	• Chapter 15, Section A, Boat Crew Seamanship Manual, COMDTINST M16114.5 (series)	15-3
COX-06-02-AUX	• Chapter 15, Section C, Boat Crew Seamanship Manual, COMDTINST M16114.5 (series)	15-11
COX-06-03-AUX	• Chapter 15, Section B, Boat Crew Seamanship Manual, COMDTINST M16114.5 (series)	15-9
COX-06-04-AUX	• 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	• Chapter 15, Section E, Boat Crew Seamanship Manual, COMDTINST M16114.5 (series)	15-31

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	• Chapter 16, Section A, Boat Crew Seamanship Manual, COMDTINST M16114.5 (series)	16-4
COX-07-02-AUX	• Chapter 16, Section A, Boat Crew Seamanship Manual, COMDTINST M16114.5 (series)	16-4
COX-07-05-AUX	• Chapter 18, Sections A and B, Boat Crew Seamanship Manual, COMDTINST M16114.5 (series)	18-1 18-7
COX-07-06-AUX	• 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-07-05-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	• Appendix 17-A, Boat Crew Seamanship Manual, COMDTINST M16114.5 (series)	17-77
COX-08-02-AUX	• Chapter 17, Section B, Boat Crew Seamanship Manual, COMDTINST M16114.5 (series)	17-7
COX-08-03-AUX	• Chapter 17, Section C, Boat Crew Seamanship Manual, COMDTINST M16114.5 (series)	17-17
COX-08-04-AUX	• Chapter 17, Section D and Appendix-A, Boat Crew Seamanship Manual, COMDTINST M16114.5 (series)	17-37 17-77
COX-08-05-AUX	• Chapter 17, Section D, Boat Crew Seamanship Manual, COMDTINST M16114.5 (series)	17-31

NAME: _____

Task Number	Reading Assignment	See Page
COX-08-07-AUX	• Chapter 17, Section D, Boat Crew Seamanship Manual, COMDTINST M16114.5 (series)	17-31
COX-08-08-AUX	• Chapter 17, Boat Crew Seamanship Manual, COMDTINST M16114.5 (series)	17-31
COX-08-09-AUX	• 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. Friction is created by the movement of the _____ layer through the water.

4. With deep draft boat, a high rate of _____ puts severe strain on the deck fittings and the towline.

5. 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. 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 _____ form the seas, make your approach into the _____. This usually _____ control for the coxswain and ensures the most _____ _____ for the crew.

4. Avoid connecting the towline to a _____ fitting on the towed vessel. Use a _____ for an equal amount of _____ on both sides of the bow.

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.

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	• None assigned	
COX-09-03-AUX	• None assigned	
COX-09-04-AUX	• None assigned	
COX-09-05-AUX	• None assigned	