
U.S. COAST GUARD



HULL (HI)

PERFORMANCE AND QUALIFICATION STANDARD



Marine Inspection and Investigation School
Training Center Yorktown

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Hull

Performance and Qualification Standard

References:

- (a) U.S. Coast Guard Sector Organization Manual, COMDTINST M5401.6 (series)
- (b) Marine Safety Manual, COMDTINST M16000 (series)
- (c) Performance, Training & Education Manual, COMDTINST M1500.10 (series)
- (d) Safety and Environmental Health Manual, COMDTINST 5100.47 (series)

This Performance and Qualification Standard (PQS) workbook is your On the Job Training (OJT) performance checklist for the tasks for the Hull (HI) inspector qualification. It is your responsibility to document all completed unit training items and keep track of all inspections completed during this process by filling out the Inspection Log located in appendix B in this workbook.

This PQS is intended for all Coast Guard Marine Inspectors (Active Duty Officers and Civilian GS Personnel).

This PQS workbook contains the tasks and steps required for a HI qualification. **This is to be completed following or in conjunction with the Core PQS.** Those members who will be pursuing the HI competencies are required to complete all tasks and steps in this PQS workbook. **No competency will be assigned until the requirements of the Core and HI PQS workbooks are completed.**

The following is a brief overview of how this PQS workbook works. On each task card you will find:

1. **Job:** The formal title of the qualification.
Example: "Offshore Supply Vessel Inspector"
2. **Job Accomplishment:** The main deliverable for the qualification.
Example: "Certificate of Inspection"
3. **Major Accomplishment:** The valuable products of a job or specialty which collectively make up the job accomplishment.
Example: "Lifesaving Equipment Inspection"
4. **Vessel types:** The specific type of vessels within the formal title of the qualification that the task is associated with.
Example: "Small Passenger Vessel (T)"
5. **Task:** Action to be performed on the job. A unit of behavior which has value for producing major accomplishments/output; has a definite beginning (stimulus); is made up of two or more steps; and results in a measurable output.
6. **Condition:** Specifies assistance, aids, or constraints the trainee will be given. It states the condition(s)/limit(s) under which the task will be performed.

7. **Standard:** Specifications of the levels of accuracy and quality necessary for success - that is, how well a trainee must carry out the desired performance to complete the task.
8. **Steps:** Sequence of actions which collectively make up the task's completion.

All tasks and steps must be validated by a certified Verifying Officer (VO). The VO shall observe the successful performance of each task and document such with signatures in the specific task card. VOs shall be experienced and competent personnel who have demonstrated the ability to evaluate, instruct and observe other personnel in the performance task criteria. VOs must be certified and recent in the competencies for which they are to verify and must be designated in writing, by the command. VOs must enter their title, name and initials in the Record of Verifying Officer's section before making entries in your PQS workbook.

With the exception of the training prerequisites listed on page (I), the Officer in Charge of Marine Inspection (OCMI) or designee may defer PQS items as authorized by references (a) and (d). The deferment of tasks should only be done when all reasonable attempts have been exhausted that would allow the apprentice the opportunity to demonstrate proficiency with a particular task. If a task is deferred, the reason for the deferment must be clearly articulated in both the PQS workbook and the certification letter for record keeping and accountability. The certification will be considered a "local certification" per reference (b) (MSM I/7.C.2.g) and limited to the cognizant OCMI's zone. Upon transfer of the inspector or OCMI, the certification will be rescinded until the deferred items have completed to the satisfaction of the new OCMI. **Division Chiefs shall examine all qualifications and prerequisites of newly reported Marine Inspectors to identify any deferred items necessary for their port.**

Prior to any prerequisite being deferred the individual's command must seek a waiver from the Office of Commercial Vessel Compliance (CG-CVC-1).

A Certification Board should only be completed after all the tasks and steps are signed by a VO. Upon satisfactory completion of the board, a Letter of Certification/Designation will be issued and the **Unit Training Coordinator should enter the certification in Training Management Tool (TMT).**

Appendices:

- A. Glossary
- B. Inspection Log

PQS Verifying Officer Signature Verification Log

RATE/ RANK	SIGNATURE/ PRINT NAME	EMPLID	INITIALS	UNIT
REMARKS:				

Hull (HI) PQS

RECORD OF COMPLETION		
Training Prerequisites	Date	Training Coordinator's Signature
A. Completion of the following resident and on-line courses:		
1. Marine Inspector Course (501869); and		
2. Introduction to Confined Space Entry and Shipyard Competent Person for Marine Inspection/Port State Control (100028)		
B. Completion of Core (HI/MI) PQS Workbook		
C. Completion of this PQS Workbook		
D. Successful completion of final assessment under observation of Verifying Officer		
E. Successful completion of the final board by HI Certification Board		
HICB Members Present for Board:		
F. Certification/Designation Letter submitted for approval		
G. Once Certification/Designation Letter is signed, enter competency and certification in TMT		
REMARKS:		

Hull (HI) PQS

Task Number	Task Description	Date Completed
HI-DA01	Initial vessel visual examination (upon arrival)	
HI-CD01	Review drug and alcohol program compliance	
HI-CD02	Review Dangerous Cargo Manifest	
HI-CD03	Review Federal Communications Commission Bridge-to-Bridge Certificate	
HI-CD04	Review Federal Communications Commission Station License	
HI-CD05	Review Federal Communications Commission Safety Radiotelephony Certificate	
HI-CD06	Review Load Line Certificate (International/Coastwise)	
HI-CD07	Review Tonnage Certificate (International (ITC)/Domestic)	
HI-CD08	Review International Anti-Fouling System (IAFS) certificate & Record of Anti-Fouling System	
HI-CD09	Review International Ships Security Certificate (ISSC) & Continuous Synopsis Record (CSR)	
HI-LM01	Review logbook entries	
HI-LM02	Review abandon ship and fire fighting training manual	
HI-LM03	Review lifesaving equipment maintenance records	
HI-LM04	Review Cargo Securing Manual	
HI-LM05	Review Waste/Garbage Management Plan	
HI-LM06	Review Garbage Record Book	
HI-LM07	Review ballast water management documents	
HI-LM08	Review cargo gear records	
HI-LM09	Review Non-Tank Vessel Response Plan (NTVRP)	
HI-BN01	Verify operation of internal communication and control systems	
HI-BN02	Inspect radar(s)	
HI-BN03	Inspect magnetic compass	
HI-BN04	Inspect gyrocompass and repeaters	
HI-BN05	Inspect depth sounding/recording equipment	
HI-BN06	Inspect satellite navigation receiver (GPS)	
HI-BN07	Verify operation of Automatic Identification System (AIS)	
HI-BN08	Verify Long Range Identification and Tracking Information (LRIT) equipment	
HI-BN09	Inspect Global Maritime Distress and Safety System (GMDSS) equipment	

Hull (HI) PQS

Task Number	Task Description	Date Completed
HI-BN10	Inspect radiotelephone equipment	
HI-BN11	Inspect Voyage Data Recorder (VDR)	
HI-BN12	Inspect lifeboat radios	
HI-BN13	Inspect Search & Rescue Locating Devices (SART)s	
HI-BN14	Inspect steering system controls at Operating Station	
HI-BN15	Inspect navigation lights & shapes	
HI-BN16	Inspect sound signaling devices	
HI-BN17	Inspect charts and publications	
HI-GH01	Inspect accommodation spaces	
HI-GH02	Inspect galley spaces and messrooms	
HI-GH03	Inspect liquefied petroleum gas systems for cooking and heat	
HI-GH04	Inspect hospital space	
HI-GH05	Inspect other crew spaces	
HI-LS01	Inspect Emergency Position Indicating Radio Beacon (EPIRB)	
HI-LS02	Inspect line throwing equipment	
HI-LS03	Inspect distress signals	
HI-LS04	Inspect lifebuoys	
HI-LS05	Inspect inflatable liferaft installations	
HI-LS06	Inspect lifeboats	
HI-LS07	Inspect rescue boat	
HI-LS08	Inspect survival craft davit(s) and appurtenances	
HI-LS09	Witness davit weight test	
HI-LS10	Inspect marine evacuation system (MES)	
HI-PP01	Conduct garbage handling survey (MARPOL Annex V)	
HI-PP02	Conduct an international air pollution prevention (MARPOL Annex VI) survey	
HI-TE01	Inspect freeing ports and scuppers	
HI-TE02	Inspect ground tackle and related equipment	
HI-TE03	Inspect air ports, covers and natural vent openings	
HI-TE04	Inspect tank vents	

Hull (HI) PQS

Task Number	Task Description	Date Completed
HI-TE05	Inspect rails and guards	
HI-CS01	Inspect portable tank(s)	
HI-CS02	Inspect packaged hazardous material(s)	
HI-CS03	Inspect dry-bulk cargo system	
HI-CS04	Inspect break bulk cargo system	
HI-CS05	Inspect Ro-Ro cargo decks	
HI-CS06	Inspect cargo hatches	
HI-CS07	Inspect container systems	
HI-HD01	Inspect helicopter deck	
HI-HD02	Inspect fire fighting system(s) for helicopter deck	

Appendix A

Glossary: The following terms are used in this workbook and should be reviewed in order to better understand its contents:

Advise: to counsel or recommend

Assign: to give responsibility, to place under the control of a task

Amend (Modify): to make minor changes in/to

Brief: to give information or final precise instructions

Change: to make different in some particular way

Check: to inspect for satisfactory condition, accuracy, safety or performance

Compare: to examine (two or more objects, ideas, people, etc.) in order to note similarities and/or differences

Communicate: to convey knowledge of or information about: make known

Confirm: to validate, establish the truth, accuracy or genuineness of something

Create: to cause to happen; bring about; arrange, as by intention or design

Discuss: to verbally present a topic in detail for examination or consideration

Determine: to settle or decide by choice of alternatives or possibilities. “Decide” refers to arriving at a conclusion and to pronounce that decision. “Determine” is to settle or decide by choice of alternatives or possibilities and to fix precisely.

Endorse: to approve, support or sustain; to sign one’s name on a document or other instrument

Ensure: to make certain, to guarantee

Enter: to make a record of; record or register

Evaluate: to determine the significance or worth of, usually by careful appraisal and study

Examine: to look at or consider a thing carefully and in detail in order to discover something about it

Identify: to determine critical or necessary conditions or other factors; to determine the specific model of an item; to ascertain the origin, nature or definitive characteristics of; to recognize or establish as being a particular person or thing

Inspect: to examine officially; to look carefully at or over; view closely and critically

Issue: to serve legally binding federal documentation, notices or declarations to an individual, business or other distinctive entity

Appendix A

Locate: to determine or set the position of; to find

Make: to create or cause to happen

Modify (Amend): to make minor changes in/to

Observe (Witness): to watch carefully

Obtain: to gain or attain

Open: to set in action, begin, start or commence

Prepare: plan, gather and assemble information to produce a document (i.e. COI); to put together, to combine elements and produce a product, to make ready

Provide: to supply or make available

Review: to go over for the purpose of determining correctness or currency; to examine a document or process for accuracy in content and/or format and report errors or updates to the author or controlling authority

Schedule: to appoint, assign, or designate for a fixed time

Update: to bring up to date or make current

Validate: to substantiate accuracy or truth of by comparison or investigation

Verify: to confirm or establish the accuracy or truth of something

Witness (Observe): to watch carefully

Appendix B

DATE	LOCATION	VESSEL NAME	VESSEL TYPE	INSPECTION TYPE	LEAD INSPECTOR

Appendix B

DATE	LOCATION	VESSEL NAME	VESSEL TYPE	INSPECTION TYPE	LEAD INSPECTOR

Dockside Assessment (DA)

D, H, & I Vessels

Task: HI-DA01 Initial vessel visual examination (upon arrival)

Condition: While observing the vessel from dock or anchorage

Standard: In compliance with applicable policies, laws, regulations and standards

- References:**
1. Title 29, Code of Federal Regulations Part 1915 Occupational Safety & Health Standards for Shipyard Employment
 2. Title 33, Code of Federal Regulations Part 104 Maritime Security - Vessels
 3. Title 46, Code of Federal Regulations Part 42, 67, 96 & 97
 4. International Convention for the Safety of Life at Sea (SOLAS) 1974, as amended
 5. International Convention on Load Lines (ICLL) 1966, as amended
 6. International Convention for the Prevention of Pollution from Ships (MARPOL) 1973, as amended

Steps		References	Initials
DA01.1	Verify presence of anchor(s)	46 CFR 32.15-15, 77.07 & 96.07-5	
DA01.2	Verify Load Line markings	46 CFR 31.25-1, 78.50-15, 97.40-15 46 CFR 42.07-5, .13-25, -35 & -40 ICLL 1/6	
DA01.3	Verify IMO number	SOLAS 20 XI-1/3	
DA01.4	Verify draught (draft) marks	46 CFR 32.05-1 46 CFR 78.50-10 & 97.40-10 SOLAS 20 II-1/5.6	
DA01.5	Verify name, hailing port and official number markings	46 CFR 32.05-10 46 CFR 78.50-5 & 97.40-5 46 CFR 67.121 & .123	
DA01.6	Evaluate hull for signs of pollution/illegal discharge	33 USC 1321 33 CFR 151.10(b) MARPOL I/15	
DA01.7	Evaluate hull condition	46 CFR 31.10-15(b) 46 CFR 71.25-10 & 91.25-10 SOLAS 20 II-1/3-1 & ICLL I/1	
DA01.8	Examine means of embarkation (gangway/ladders)	29 CFR 1915.74(a)(6) 46 CFR 32.90-1, 78.90-1 & 96.40-1 SOLAS 20 II-1/3-9	
DA01.9	Examine cargo ports and other similar openings	46 CFR 42.15-55 ICLL I/21	
DA01.10	Examine sidescuttles (windows/skylights)	46 CFR 42.15-65 ICLL I/23	

Verifying Officer Guidance: Trainee shall demonstrate a working knowledge of hull markings, loadline requirements, equipment's components, function, purpose and operation.

Inspector's Name: (Last, First, Initial)	EMPLID:
Verifying Officer's Signature:	Date:

Certificates and Documents (CD)

D, H & I Vessels

Task: HI-CD01 Review drug and alcohol program compliance

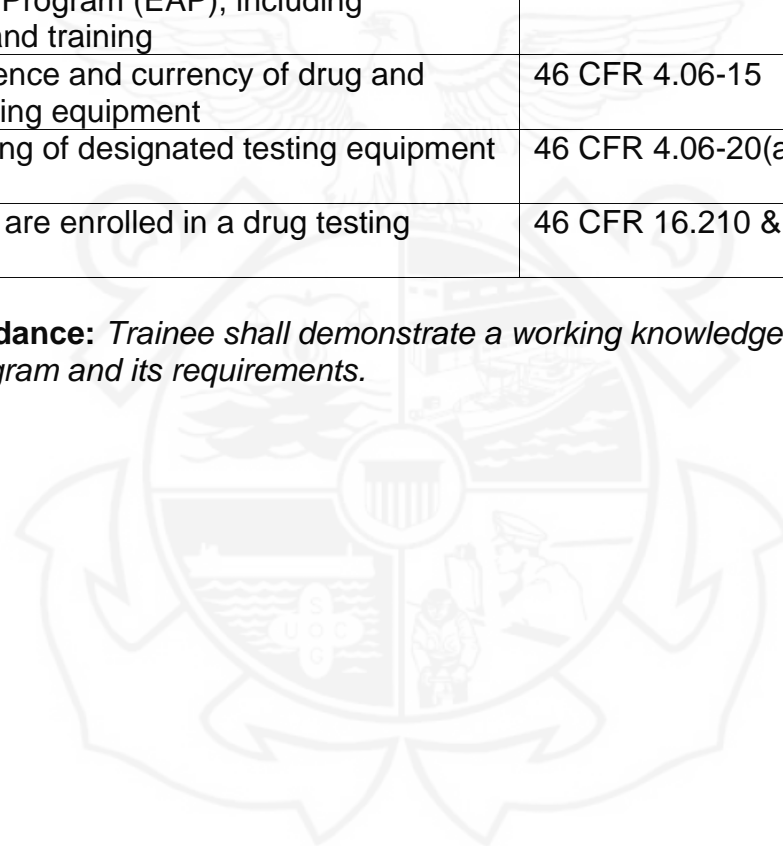
Condition: While validating certificates and documents

Standard: In compliance with applicable policies, laws, regulations and standards

- References:**
1. Title 46, Code of Federal Regulations Part 4 Marine Casualties & Investigations
 2. Title 46, Code of Federal Regulations Part 16 Chemical Testing

Steps		References	Initials
CD01.1	Verify compliance with required Employee Assistance Program (EAP), including education and training	46 CFR 16.401	
CD01.2	Verify presence and currency of drug and alcohol testing equipment	46 CFR 4.06-15	
CD01.3	Verify training of designated testing equipment crewmen	46 CFR 4.06-20(a)(3)	
CD01.4	Verify crew are enrolled in a drug testing program	46 CFR 16.210 & .230	

Verifying Officer Guidance: Trainee shall demonstrate a working knowledge of the Coast Guard's Drug and Alcohol Program and its requirements.



Inspector's Name: (Last, First, Initial)	EMPLID:
Verifying Officer's Signature:	Date:

Certificates and Documents (CD)

D, H, & I Vessels

Task: HI-CD02 Review Dangerous Cargo Manifest

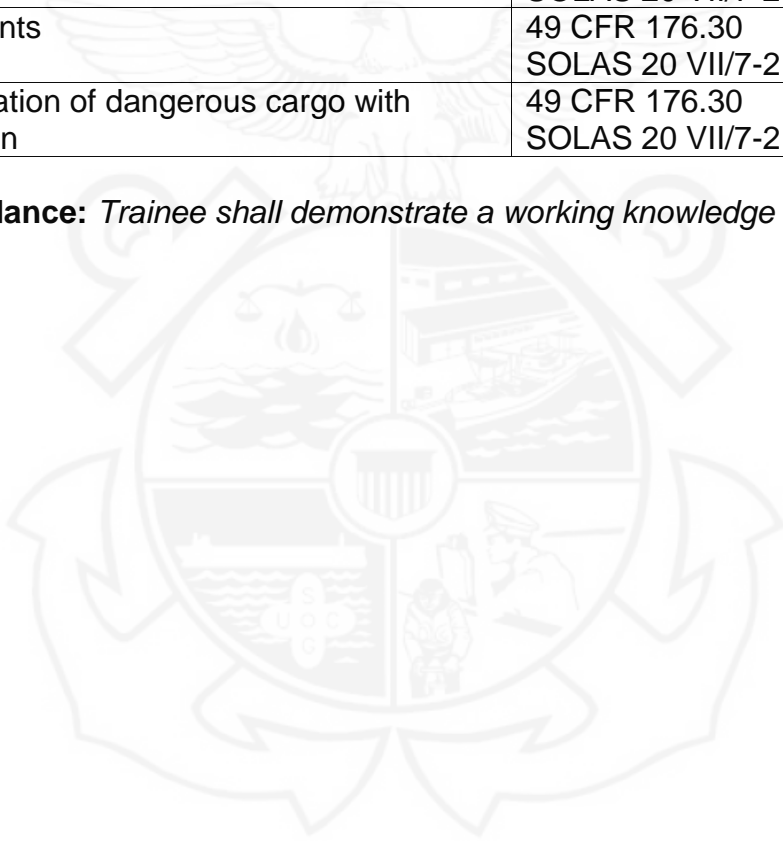
Condition: *During cargo environmental control examination*

Standard: *In compliance with applicable policies, laws, regulations and standards*

- References:**
1. Title 49, Code of Federal Regulations Part 176 Carriage by Vessel
 2. International Convention for the Safety of Life at Sea (SOLAS) 1974, as amended

Steps		References	Initials
CD02.1	Verify presence	49 CFR 176.30 SOLAS 20 VII/7-2	
CD02.2	Verify contents	49 CFR 176.30 SOLAS 20 VII/7-2	
CD02.3	Confirm location of dangerous cargo with stowage plan	49 CFR 176.30 SOLAS 20 VII/7-2	

Verifying Officer Guidance: *Trainee shall demonstrate a working knowledge of document requirements.*



Inspector's Name: (Last, First, Initial)	EMPLID:
Verifying Officer's Signature:	Date:

Certificates and Documents (CD)

D, H & I Vessels

Task: HI-CD03 Review Federal Communications Commission Bridge-to-Bridge Certificate

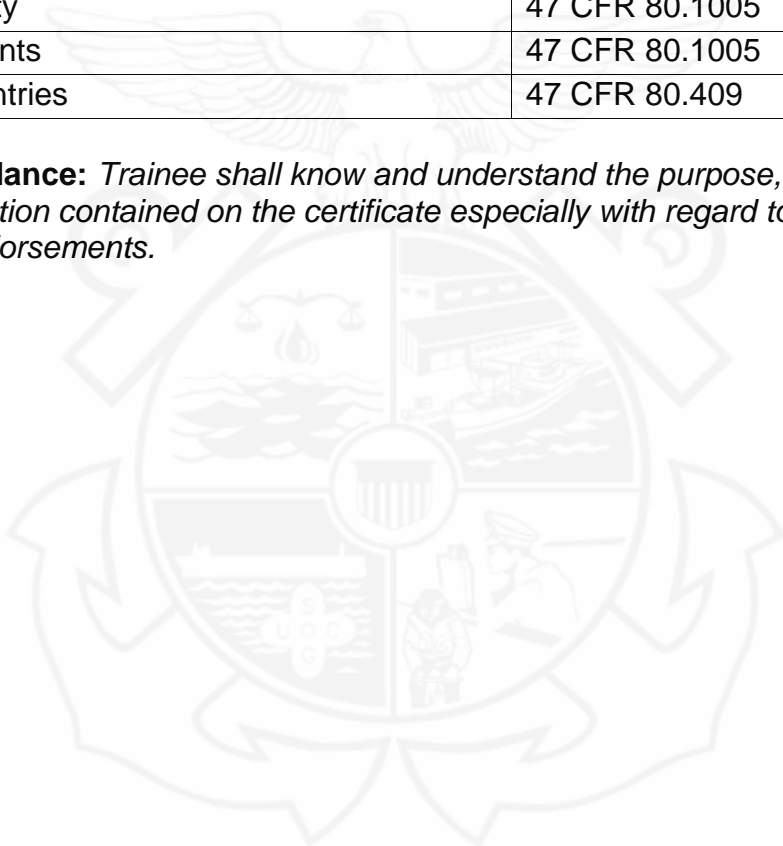
Condition: While validating certificates and documents

Standard: In compliance with applicable policies, laws, regulations and standards

References: 1. Title 47, Code of Federal Regulations Part 80 Stations in the Maritime Services

Steps		References	Initials
CD03.1	Verify presence	47 CFR 80.1001	
CD03.2	Verify validity	47 CFR 80.1005	
CD03.3	Verify contents	47 CFR 80.1005	
CD03.4	Verify log entries	47 CFR 80.409	

Verifying Officer Guidance: Trainee shall know and understand the purpose, format, contents and how to use the information contained on the certificate especially with regard to issuance, periods of validity and proper endorsements.



Inspector's Name: (Last, First, Initial)	EMPLID:
Verifying Officer's Signature:	Date:

Certificates and Documents (CD)

D, H & I Vessels

Task: HI-CD04 Review Federal Communications Commission Station License

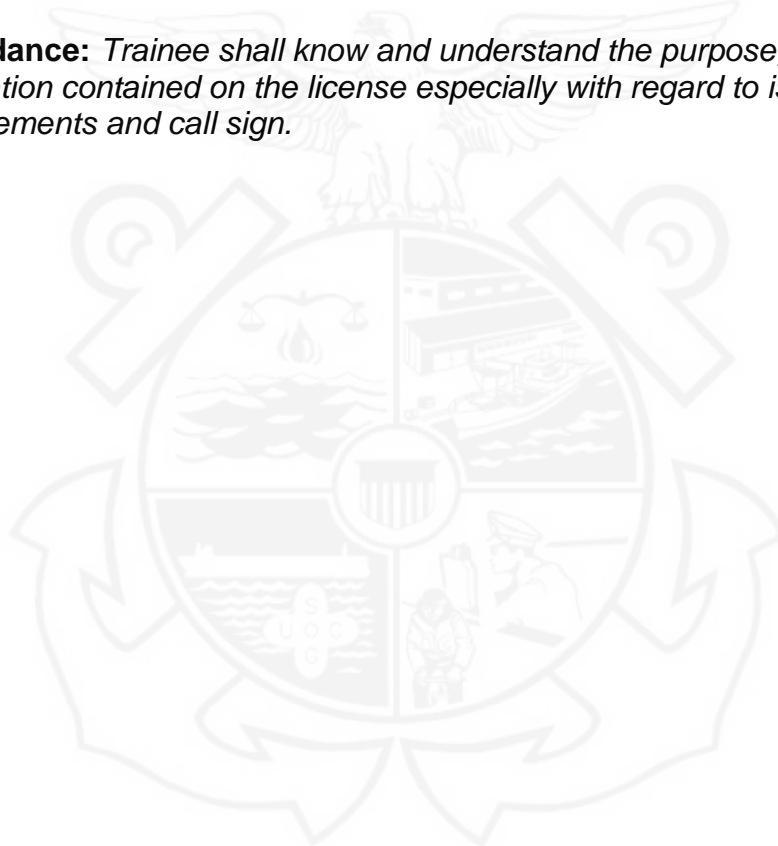
Condition: While validating certificates and documents

Standard: In compliance with applicable policies, laws, regulations and standards

References: 1. Title 47, Code of Federal Regulations Part 80 Stations in the Maritime Services

Steps		References	Initials
CD04.1	Verify presence	47 CFR 80.13	
CD04.2	Verify validity	47 CFR 80.25	

Verifying Officer Guidance: Trainee shall know and understand the purpose, format, contents and how to use the information contained on the license especially with regard to issuance, periods of validity, proper endorsements and call sign.



Inspector's Name: (Last, First, Initial)	EMPLID:
Verifying Officer's Signature:	Date:

Certificates and Documents (CD)

D, H & I Vessels

Task: HI-CD05 Review Federal Communications Commission Safety Radiotelephony Certificate

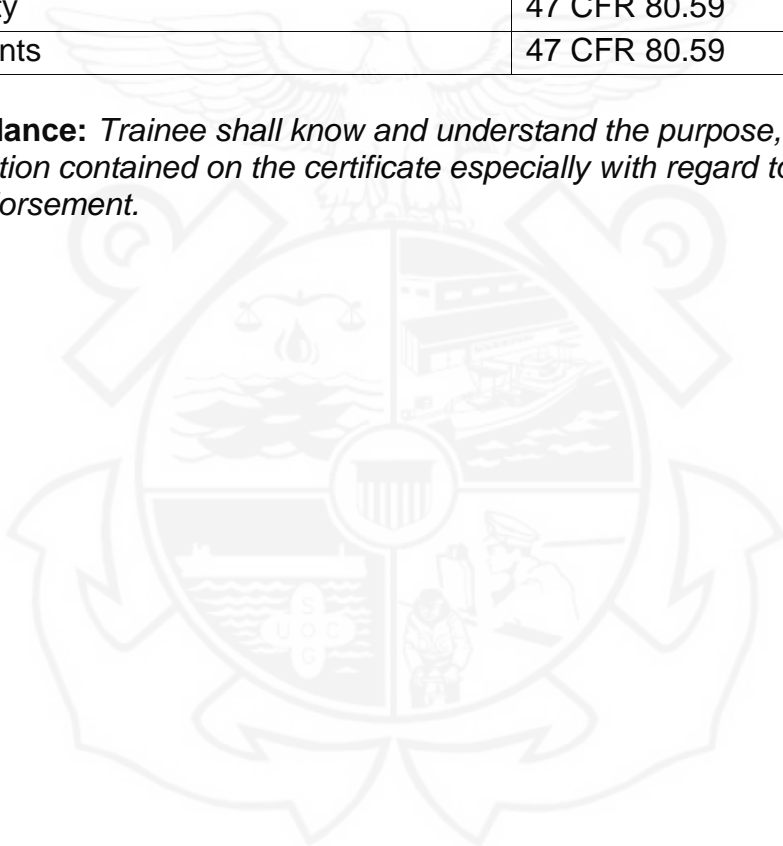
Condition: While validating certificates and documents

Standard: In compliance with applicable policies, laws, regulations and standards

References: 1. Title 47, Code of Federal Regulations Part 80 Stations in the Maritime Services

Steps		References	Initials
CD05.1	Verify presence	47 CFR 80.59(a)(2)	
CD05.2	Verify validity	47 CFR 80.59	
CD05.3	Verify contents	47 CFR 80.59	

Verifying Officer Guidance: Trainee shall know and understand the purpose, format, contents and how to use the information contained on the certificate especially with regard to issuance, periods of validity and proper endorsement.



Inspector's Name: (Last, First, Initial)	EMPLID:
Verifying Officer's Signature:	Date:

Certificates and Documents (CD)

D, H & I Vessels

Task: HI-CD06 Review Load Line Certificate (International/Coastwise)**Condition:** While validating certificates and documents**Standard:** In compliance with applicable policies, laws, regulations and standards

- References:**
1. Title 46, Code of Federal Regulations Part 31 Tank Vessels - Inspection & Certification
 2. Title 46, Code of Federal Regulations Part 42 Load Lines - Domestic & Foreign Voyages by Sea
 3. Title 46, Code of Federal Regulations Part 72 Passenger Vessels - Construction & Arrangement
 4. Title 46, Code of Federal Regulations Part 92 Cargo & Miscellaneous Vessels - Construction & Arrangement
 5. International Convention on Load Lines (ICLL) 1966, as amended

Steps		References	Initials
CD06.1	Parent cites	46 CFR 31.25-1 46 CFR 72.01-5 46 CFR 92-01-5	
CD06.2	Verify presence and type	46 CFR 42.03-5 46 CFR 42.07-5 ICLL Article 16	
CD06.3	Verify validity	46 CFR 42.07-45 ICLL Article 15 ICLL Article 19	
CD06.4	Verify proper certificate form	46 CFR 42.07-45(e) ICLL Article 18	
CD06.5	Confirm load line observed on hull matches certificate	46 CFR 42.07-5(b) ICLL I/9	
CD06.6	Verify Record of Conditions of Assignment (Form LL.11) is present and validates issued Load Line	46 CFR 42.09-15	

Verifying Officer Guidance: Trainee shall know and understand the purpose, format, contents and how to use the information contained on the certificate, especially with regard to issuance, periods of validity and proper endorsements.

Inspector's Name: (Last, First, Initial)

EMPLID:

Verifying Officer's Signature:

Date:

Certificates and Documents (CD)

D, H & I Vessels

Task: HI-CD07 Review Tonnage Certificate (International (ITC)/Domestic)

Condition: While validating certificates and documents

Standard: In compliance with applicable policies, laws, regulations and standards

- References:**
1. Title 46, Code of Federal Regulations Part 69 Measurement of Vessels
 2. International Convention on Tonnage Measurement of Ships (ICTM), 1969
 3. NVIC 11-93 Ch-3 Applicability of Tonnage Measurement Systems to U.S. Flag Vessels

Steps		References	Initials
CD07.1	Verify presence	46 CFR 69.3 46 CFR 69.11 & .69 46 CFR 69.179	
CD07.2	Verify validity	46 CFR 69.15	
CD07.3	Verify correct measurement system	46 CFR 69.11 NVIC 11-93	
CD07.4	Verify vessel particulars remain valid	46 CFR 69.55 46 CFR 69.105 ICTM Article 3	

Verifying Officer Guidance: *NVIC 11-93 Ch-3 has requirements on applicability of tonnage measurement systems to U.S. flag vessels. "Discussion" section provides amplifying information. Particular attention to be paid to definitions of Convention & Regulatory Measurement Systems.*

Inspector's Name: (Last, First, Initial)	EMPLID:
Verifying Officer's Signature:	Date:

Certificates and Documents (CD)

D, H & I Vessels

Task: HI-CD08 Review International Anti-Fouling System (IAFS) certificate & Record of Anti-Fouling System

Condition: While validating certificates and documents

Standard: In compliance with applicable policies, laws, regulations and standards

- References:**
1. International Convention on the Control of Harmful Anti-Fouling Systems on Ships (AFS), 2001
 2. IMO Resolution MEPC.208(62) 2011 Guidelines for Inspection of Anti-Fouling Systems on Ships
 3. COMDTINST M16000.7B Marine Safety Manual Volume II Material Inspection Ch-2

Steps		References	Initials
CD08.1	Verify vessel particulars	IMO Res MEPC.208(62)2011	
CD08.2	Verify COI has Anti-Fouling endorsement or, if not required, IAFS Certificates	MSM II/B.3.J	
CD08.3	Verify records from manufacturer & shipyard(s) where coatings were applied	AFS Annex 4 Reg 5(1)	
CD08.4	Verify vessel particulars on Record of Anti-Fouling System	IMO Res MEPC.208(62)2011 MSM II/B.3.J	
CD08.5	Verify Anti-Fouling System details provided	IMO Res MEPC.208(62)2011	
CD08.6	Verify that no change in Anti-Fouling System has occurred since issuance of IAFS Certificates	IMO Res MEPC.195(61) 5.2 MSM II/B.3.J	

Verifying Officer Guidance: Trainee shall know and understand the purpose, format, contents and how to use the information contained on the certificate, especially with regard to issuance, periods of validity and proper endorsements.

Inspector's Name: (Last, First, Initial)

EMPLID:

Verifying Officer's Signature:

Date:

Certificates and Documents (CD)

D, H & I Vessels

Task: HI-CD09 Review International Ships Security Certificate (ISSC) & Continuous Synopsis Record (CSR)

Condition: While validating certificates and documents

Standard: In compliance with applicable policies, laws, regulations and standards

References: 1. International Convention for the Safety of Life at Sea (SOLAS) 1974, as amended
2. International Ship & Port Facility Security (ISPS) Code, 2012

Steps		References	Initials
CD09.1	Verify vessel particulars	SOLAS 20 XI-1/5	
CD09.2	Verify Company name and address match International Safety Management documents	SOLAS 20 XI-1/5.3	
CD09.3	Verify ISSC verification type with date	ISPS Code A/19	
CD09.4	Verify ISSC endorsement (Intermediate or additional)	ISPS Code A/19.1.1	
CD09.5	Verify additional ISSC verifications, extensions, renewals or expiry advancements are completed	ISPS Code A/19.1.1 ISPS Code A/19.3.4	
CD09.6	Verify CSR is present and valid	SOLAS 20 XI-1/5	
CD09.7	Verify CSR information matches ISSC	SOLAS 20 XI-1/5	

Verifying Officer Guidance: Trainee shall know and understand the purpose, format, contents and how to use the information contained on the certificate, especially with regard to issuance, periods of validity and proper endorsements.

Inspector's Name: (Last, First, Initial)	EMPLID:
Verifying Officer's Signature:	Date:

Logs and Manuals Inspection (LM)

D, H, & I Vessels

Task: HI-LM01 Review logbook entries**Condition:** While validating logs and manuals**Standard:** In compliance with applicable policies, laws, regulations and standards

- References:**
1. Title 46, United States Code Chapter 113 - Official Logbooks
 2. Title 33, Code of Federal Regulations Part 164 Navigation Safety Regulations
 3. Title 46, Code of Federal Regulations Part 4 Marine Casualties & Investigations
 4. Title 46, Code of Federal Regulations Parts 31, 35, 78, 97 & 199
 5. International Convention for the Safety of Life at Sea (SOLAS) 1974, as amended

Steps		References	Initials
LM01.1	Parent cites	46 CFR 35.07-1, 78.37-1 & 97.35-1	
LM01.2	Verify log entries & signatures	46 USC 11302(4) & (5) 46 CFR 35.07-5, 78.37-3 & & 97.35-5	
LM01.3	Verify training, musters & drills	46 CFR 35.07-10(b)(1) & 78.37-5(a) 46 CFR 97.15-35, 35-5(a) & 199.180(h) SOLAS 20 III/19.5	
LM01.4	Verify watertight doors/hatches operations	46 CFR 78.37-5(b) 46 CFR 97-15-20	
LM01.5	Verify valve closing appliance operation	46 CFR 78.37-5(c)	
LM01.6	Verify loudspeaker system tests	46 CFR 78.37-5(d)	
LM01.7	Verify steering gear, whistle (H & I only) & communications tests	46 CFR 35.07-10(b)(4) & .20-10 46 CFR 78.17-15 & .37-5(e) 46 CFR 97.15-3(b) 33 CFR 164.25(d)(2)	
LM01.8	Verify drafts, load line markings	46 CFR 35.07-10(b)(2) & 78.37-5(f) 46 CFR 46 CFR 97.35-5(c)	
LM01.9	Verify compliance with applicable stability requirements	46 CFR 35.07-10(b)(3) 46 CFR 78.37-5(g) 46 CFR 97.35-5(d)	
LM01.10	Verify loading door operations	46 CFR 78.37-5(h) 46 CFR 97.35-5(e)	
LM01.11	Verify hatches and other openings operations	46 CFR 78.37-5(i) 46 CFR 97.35-5(f)	
LM01.12	Verify testing of emergency lighting/power operations	46 CFR 35.07-10(7) 46 CFR 78.37-5(j) 46 CFR 97.35-5(g)	

[Task HI-LM01 continued on next page]

Inspector's Name: (Last, First, Initial)

EMPLID:

Verifying Officer's Signature:

Date:

Task: HI-LM01 Review logbook entries (con't)

Steps		References	Initials
LM01.13	Verify smoke detecting system tests	46 CFR 78.37-5(k)	
LM01.14	Verify fuel oil data documented	46 CFR 35.07-10(5) 46 CFR 78.37-5(l) 46 CFR 97.35-5(h)	
LM01.15	Verify cargo gear inspection	46 CFR 35.07-10(b)(8) 46 CFR 78.37-5(m) 46 CFR 97.35-5(i)	
LM01.16	Verify sanitary inspections	46 CFR 31.10-45	
LM01.17	Verify marine casualties documented	46 CFR 35.15-1 46 CFR 78.07-1 & 97.07-1 46 CFR 4.05-15	
LM01.18	Verify items relative to crew and passengers documented	46 CFR 78.37-10	
LM01.19	Verify inflatable hopper gate seals documented	46 CFR 97.35-5(j)	

Verifying Officer Guidance:



Inspector's Name: (Last, First, Initial)	EMPLID:
Verifying Officer's Signature:	Date:

Logs and Manuals Inspection (LM)

D, H & I Vessels

Task: HI-LM02 Review abandon ship and fire fighting training manual

Condition: While validating logs and manuals

Standard: In compliance with applicable policies, laws, regulations and standards

- References:**
1. Title 46, Code of Federal Regulations Part 31 Tank Vessels - Inspection & Certification
 2. Title 46, Code of Federal Regulations Part 71 Inspection and Certification
 3. Title 46, Code of Federal Regulations Part 91 Cargo & Miscellaneous Vessels - Inspection & Certification
 4. Title 46, Code of Federal Regulations Part 199 Lifesaving Appliances & Arrangements
 5. International Convention for the Safety of Life at Sea (SOLAS) 1974, as amended

Steps		References	Initials
LM02.1	Parent cites	46 CFR 31.36-1 46 CFR 71.25-15 46 CFR 91.25-15 & 97.15-35	
LM02.2	Verify location	46 CFR 199.180(a)(1) SOLAS 20 II-2/15.2.3 SOLAS 20 III/35.2	
LM02.3	Verify contents	46 CFR 199.180(a)(2) SOLAS 20 II-2/15.2.3.3 SOLAS 20 III/35.3	

Verifying Officer Guidance: Trainee shall demonstrate a working knowledge of vessel log format, purpose and how to use the information contained therein.

Inspector's Name: (Last, First, Initial)	EMPLID:
Verifying Officer's Signature:	Date:

Logs and Manuals Inspection (LM)

D, H, & I Vessels

Task: HI-LM03 Inspect lifesaving equipment maintenance records

Condition: While validating logs and manuals

Standard: In compliance with applicable policies, laws, regulations and standards

- References:**
1. Title 46, Code of Federal Regulations Part 35 Tank Vessels - Operations
 2. Title 46, Code of Federal Regulations Part 78 Passenger Vessels - Operations
 3. Title 46, Code of Federal Regulations Part 97 Cargo & Miscellaneous Vessels - Operations
 4. Title 46, Code of Federal Regulations Part 199 - Lifesaving Systems for Certain Inspected Vessels
 5. International Convention for the Safety of Life at Sea (SOLAS) 1974, as amended

Steps		References	Initials
LM03.1	Parent cites	46 CFR 35.07-10(b)(1) 46 CFR 78.37-5(a) 46 CFR 97.35-5(a)	
LM03.2	Review lifeboat servicing records	46 CFR 199.190(e) & (f) SOLAS 20 III/20 SOLAS 20 III/36	
LM03.3	Review rescue boat servicing records	46 CFR 199.190(e) & (f) SOLAS 20 III/20 SOLAS 20 III/36	
LM03.4	Review records for launching appliances	46 CFR 199.190(i) & (j)	
LM03.5	Review weekly inspections & tests	46 CFR 199.190(d) SOLAS 20 III/20	

Verifying Officer Guidance: Trainee shall demonstrate a working knowledge of servicing/maintenance & inspection requirements.

Inspector's Name: (Last, First, Initial)	EMPLID:
Verifying Officer's Signature:	Date:

Logs and Manuals Inspection (LM)

I Vessels

Task: HI-LM04 Review Cargo Securing Manual

Condition: While validating logs and manuals

Standard: In compliance with applicable policies, laws, regulations and standards

- References:**
1. Title 33, Code of Federal Regulations Part 97 Rules for the Safe Operation of Vessels, Stowage and Securing of Cargoes
 2. Title 46, Code of Federal Regulations Part 97 Operations
 3. International Convention for the Safety of Life at Sea (SOLAS) 1974, as amended
 4. IMO Resolution A.714(17) Code of Safe Practice for Cargo Stowage and Securing
 5. NVIC 10-97 Guidelines for Cargo Securing Manual Approval
 6. IMO MSC.1/Circ. 1353/Rev.1 Revised Guidelines for the Preparation of the Cargo Securing Manual

Steps		References	Initials
LM04.1	Verify presence	46 CFR 97.12-10 33 CFR 97.120 SOLAS 20 VI/5.6	
LM04.2	Verify contents	NVIC 10-97 SOLAS 20 VI/5.6 IMO MSC.1/Circ. 1353/Rev.1 & Res A.714(17)	
LM04.3	Verify approval	33 CFR 97.200 SOLAS 20 VI/5.6 IMO Res A.714(17)	

Verifying Officer Guidance: Trainee shall demonstrate a working knowledge of manual format, purpose and how to use the information contained therein in order to verify active compliance.

Inspector's Name: (Last, First, Initial)	EMPLID:
Verifying Officer's Signature:	Date:

Logs and Manuals Inspection (LM)

D, H, & I Vessels

Task: HI-LM05 Review Waste/Garbage Management Plan

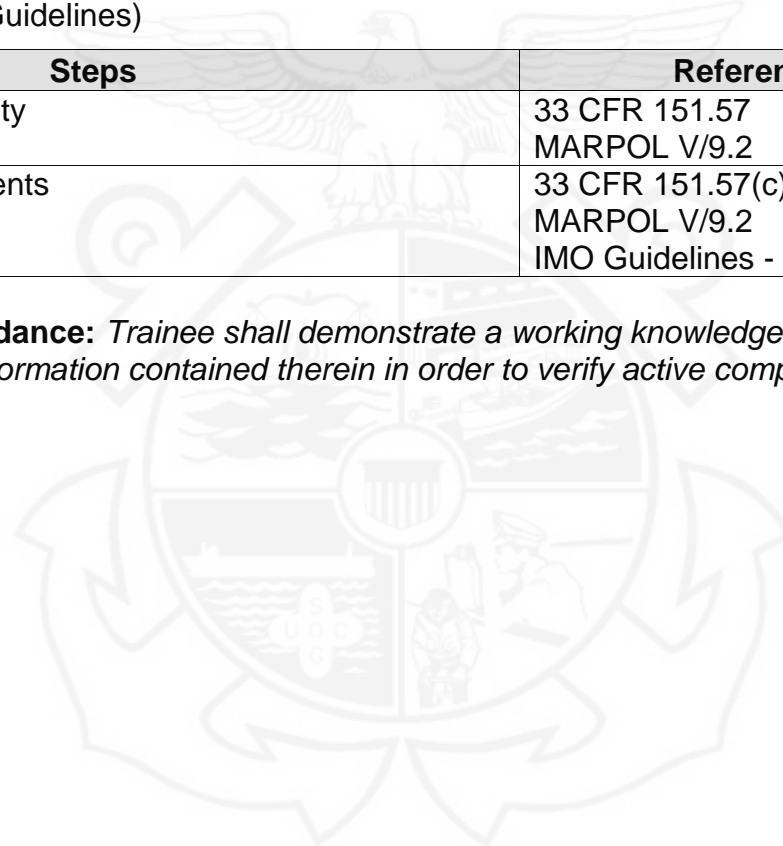
Condition: While validating logs and manuals

Standard: In compliance with applicable policies, laws, regulations and standards

- References:**
1. Title 33, Code of Federal Regulations Part 151 Vessels Carrying Oil, NLS, Garbage, Municipal or Commercial Waste & Ballast Water
 2. International Convention for the Prevention of Pollution from Ships (MARPOL) 1973, as amended
 3. IMO Guidelines for the Implementation of Annex V of MARPOL, 2006 (Guidelines)

Steps		References	Initials
LM05.1	Verify validity	33 CFR 151.57 MARPOL V/9.2	
LM05.2	Verify contents	33 CFR 151.57(c) MARPOL V/9.2 IMO Guidelines - Appendix 3	

Verifying Officer Guidance: Trainee shall demonstrate a working knowledge of plan format, purpose and how to use the information contained therein in order to verify active compliance.



Inspector's Name: (Last, First, Initial)	EMPLID:
Verifying Officer's Signature:	Date:

Logs and Manuals Inspection (LM)

D, H, & I Vessels

Task: HI-LM06 Review Garbage Record Book

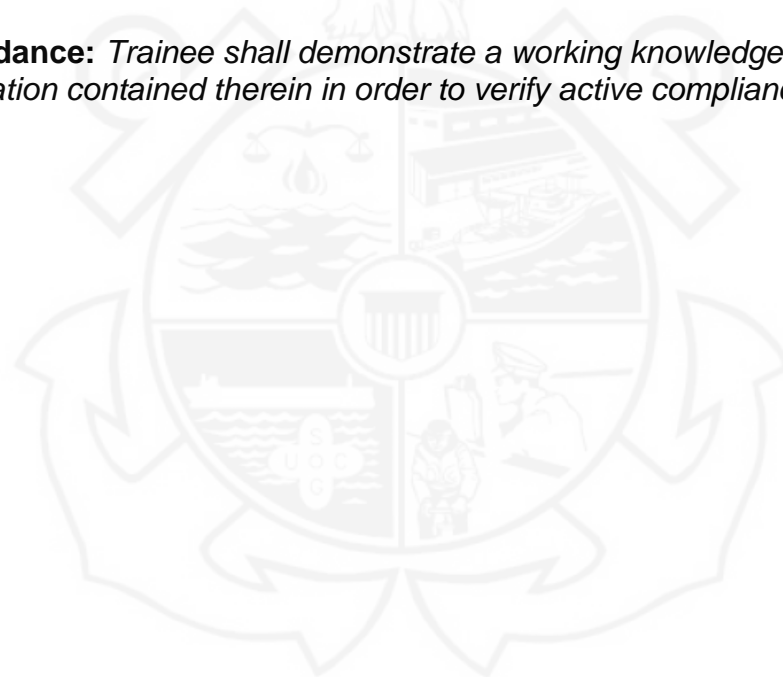
Condition: While validating logs and manuals

Standard: In compliance with applicable policies, laws, regulations and standards

- References:**
1. Title 33, Code of Federal Regulations Part 151 Vessels Carrying Oil, NLS, Garbage, Municipal or Commercial Waste & Ballast Water
 2. International Convention for the Prevention of Pollution from Ships (MARPOL) 1973, as amended

Steps		References	Initials
LM06.1	Verify validity	33 CFR 151.55 MARPOL V/9.3	
LM06.2	Verify contents	33 CFR 151.55 MARPOL V/9.3	

Verifying Officer Guidance: Trainee shall demonstrate a working knowledge of format, purpose and how to use the information contained therein in order to verify active compliance.



Inspector's Name: (Last, First, Initial)	EMPLID:
Verifying Officer's Signature:	Date:

Logs and Manuals Inspection (LM)

D, H, & I Vessels

Task: HI-LM07 Review ballast water management documents

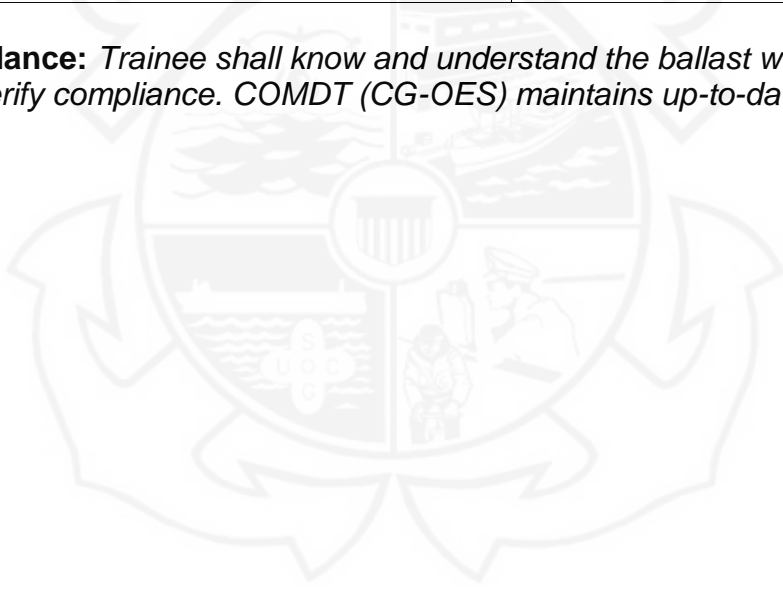
Condition: While validating certificates and documents

Standard: In compliance with applicable policies, laws, regulations and standards

- References:**
1. Title 33, Code of Federal Regulations Part 151 Vessels Carrying Oil, NLS, Garbage, Municipal or Commercial Waste & Ballast Water
 2. NVIC 01-18 Ballast Water Management for Control of Non-Indigenous Species in Waters of the United States

Steps		References	Initials
LM07.1	Verify USCG-approved	33 CFR 151.2025(a)(1)	
LM07.2	Verify approved alternate management system	33 CFR 151.2026	
LM07.3	Verify management plan	33 CFR 151.2050(g) NVIC 01-18	
LM07.4	Verify reporting requirements are met	33 CFR 151.2060	
LM07.5	Verify discharge standard	33 CFR 151.2030	

Verifying Officer Guidance: Trainee shall know and understand the ballast water management program and how to verify compliance. COMDT (CG-OES) maintains up-to-date information about the program.



Inspector's Name: (Last, First, Initial)	EMPLID:
Verifying Officer's Signature:	Date:

Logs and Manuals Inspection (LM)

D, H, & I Vessels

Task: HI-LM08 Review cargo gear records

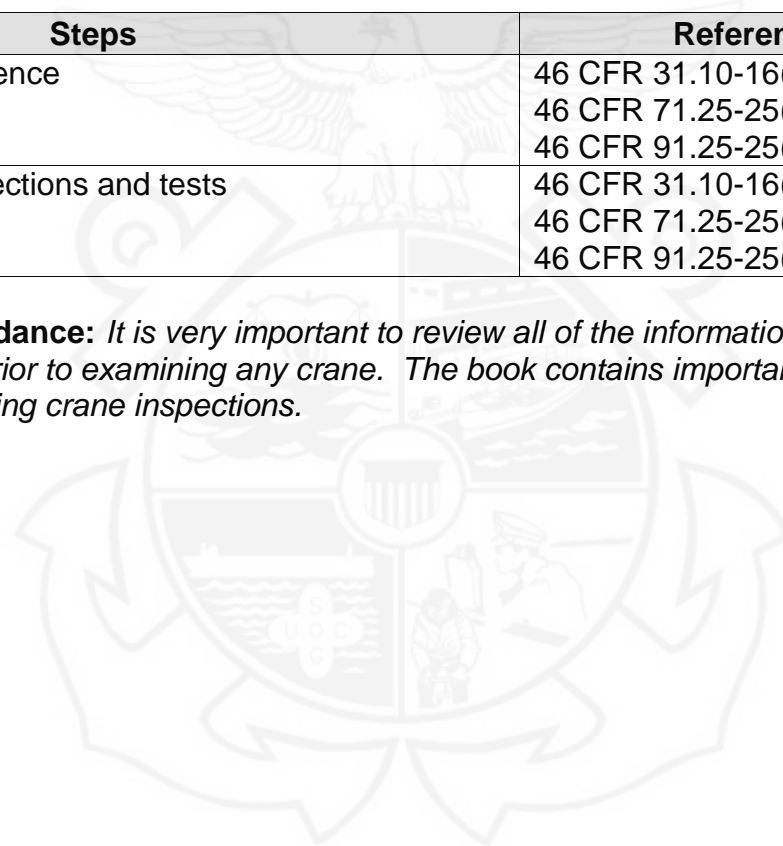
Condition: While validating logs and manuals

Standard: In compliance with applicable policies, laws, regulations and standards

- References:**
1. Title 46, Code of Federal Regulations Part 31 Tank Vessels - Inspection & Certification
 2. Title 46, Code of Federal Regulations Part 71 Inspection and Certification
 3. Title 46, Code of Federal Regulations Part 91 Cargo & Miscellaneous Vessels - Inspection & Certification

Steps		References	Initials
LM08.1	Verify presence	46 CFR 31.10-16(a) 46 CFR 71.25-25(a)(5) 46 CFR 91.25-25(b)	
LM08.2	Verify inspections and tests	46 CFR 31.10-16(d) 46 CFR 71.25-25(d) 46 CFR 91.25-25(d)	

Verifying Officer Guidance: *It is very important to review all of the information contained in the Crane Record Book prior to examining any crane. The book contains important current and historical documentation regarding crane inspections.*



Inspector's Name: (Last, First, Initial)	EMPLID:
Verifying Officer's Signature:	Date:

Logs and Manuals Inspection (LM)

D, H & I Vessels

Task: HI-LM09 Review Non-Tank Vessel Response Plan (NTVRP)

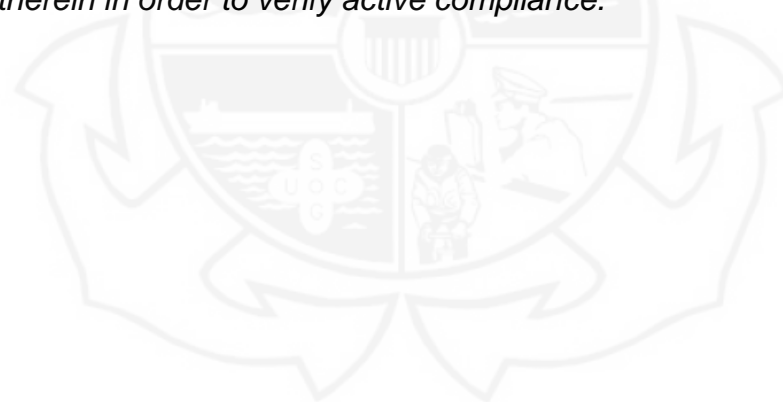
Condition: While validating logs and manuals

Standard: In compliance with applicable policies, laws, regulations and standards

- References:**
1. Title 33, United States Code § 1321 Oil & Hazardous Substance Liability
 2. Title 33, Code of Federal Regulations Part 155 Oil or Hazardous Material Pollution Prevention Regulations for Vessels
 3. NVIC 01-05 Interim Guidance for the Development and Review of Response Plans for Non Tank Vessels and CH-1

Steps		References	Initials
LM09.1	Verify applicability	33 USC 1321(j)(5)(F)(i) 33 CFR 155.5015(a)(4)	
LM09.2	Verify approval	33 USC 1321(j)(5)(D) 33 CFR 155.5065(c) NVIC 01-05 & Ch-1	
LM09.3	Verify annual reviews and information is accurate	33 CFR 155.5070	

Verifying Officer Guidance: Trainee shall demonstrate a working knowledge of an NTVRP's applicability (33 USC 1321(a)(26) & 33 CFR 155.1015) format, purpose and how to use the information contained therein in order to verify active compliance.



Inspector's Name: (Last, First, Initial)	EMPLID:
Verifying Officer's Signature:	Date:

Bridge/Navigation Inspection (BN)

D, H, & I Vessels

Task: HI-BN01 Verify operation of internal communication and control systems

Condition: During bridge and navigation inspection

Standard: In compliance with applicable policies, laws, regulations and standards

- References:**
1. Title 46, Code of Federal Regulations Part 32 Tank Vessels - Special Equipment, Machinery & Hull Requirements
 2. Title 46, Code of Federal Regulations Part 77 Inspection and Certification
 3. Title 46, Code of Federal Regulations Part 78 Passenger Vessels - Operations
 4. Title 46, Code of Federal Regulations Part 90 Cargo & Miscellaneous Vessels - General Provisions
 5. Title 46, Code of Federal Regulations Parts 97 & 113
 6. International Convention for the Safety of Life at Sea (SOLAS) 1974, as amended

Steps		References	Initials
BN01.1	Parent cites	46 CFR 32.30 46 CFR 77.05-1 46 CFR 90.25-1	
BN01.2	Witness operation of engine order telegraph	46 CFR 113.35 SOLAS 20 II-1/37	
BN01.3	Witness operation of sound powered phones	46 CFR 113.30-25(k) SOLAS 20 III/6.4.1	
BN01.4	Witness operation of public address system	46 CFR 113.50 SOLAS 20 III/6.4.2	
BN01.5	Verify operation of pilothouse control	46 CFR 113.35 SOLAS 20 II-1/49	
BN01.6	Verify means of communication between deckhouses	46 CFR 32.02-5 46 CFR 78.35-1 46 CFR 97.33-1	

Verifying Officer Guidance: Trainee shall demonstrate a working knowledge of equipment's components, function, purpose and operation. Trainee shall also ensure the Public Address interrupt is functioning properly.

Inspector's Name: (Last, First, Initial)

EMPLID:

Verifying Officer's Signature:

Date:

Bridge/Navigation Inspection (BN)

D, H, & I Vessels

Task: HI-BN02 Inspect radar(s)

Condition: *During bridge and navigation inspection*

Standard: *In compliance with applicable policies, laws, regulations and standards*

- References:**
1. Title 33, Code of Federal Regulations Part 164 Navigation Safety Regulations
 2. Title 46, Code of Federal Regulations Part 32 Tank Vessels - Special Equipment, Machinery & Hull Requirements
 3. Title 46, Code of Federal Regulations Part 77 Inspection and Certification
 4. Title 46, Code of Federal Regulations Part 96 Vessel Control and Miscellaneous Equipment
 5. International Convention for the Safety of Life at Sea (SOLAS) 1974, as amended
 6. Manufacturer's Operations Manual

Steps		References	Initials
BN02.1	Verify number of radars	46 CFR 32.15-30 46 CFR 77.09-1 & 96.25-1 33 CFR 164.35(a) & 37(a)	
BN02.2	Verify safety precautions followed	Operations Manual	
BN02.3	Verify operation	33 CFR 164.37 SOLAS 20 V/19.2.3.2 Operations Manual	
BN02.4	Verify target acquisition of Automatic Radar Plotting Aid (ARPA)	33 CFR 164.38 SOLAS 20 V/19.2.3.3 Operations Manual	
BN02.5	Verify device to indicate speed and distance	33 CFR 164.40	

Verifying Officer Guidance: *Trainee shall demonstrate a working knowledge of equipment's components, function, purpose and operation. Verify display is clear and a screen or shade device is available.*

Inspector's Name: (Last, First, Initial)	EMPLID:
Verifying Officer's Signature:	Date:

Task: HI-BN03 Inspect magnetic compass

Condition: *During bridge and navigation inspection*

Standard: *In compliance with applicable policies, laws, regulations and standards*

- References:**
1. Title 33, Code of Federal Regulations Part 164 Navigation Safety Regulations
 2. Title 46, Code of Federal Regulations Part 32 Tank Vessels - Special Equipment, Machinery & Hull Requirements
 3. Title 46, Code of Federal Regulations Part 77 Inspection and Certification
 4. Title 46, Code of Federal Regulations Part 96 Vessel Control and Miscellaneous Equipment
 5. International Convention for the Safety of Life at Sea (SOLAS) 1974, as amended

Steps		References	Initials
BN03.1	Verify presence	46 CFR 32.15-35(a) 46 CFR 77.11-1(a) 46 CFR 96.17-1(a)	
BN03.2	Verify illumination	33 CFR 164.35(b)	
BN03.3	Verify presence of spare	SOLAS 20 V/19.2.2.1	
BN03.4	Verify presence of current deviation table	33 CFR 164.35(c) SOLAS 20 V/19.2.1.3	

Verifying Officer Guidance: *Trainee shall demonstrate a working knowledge of equipment's components, function, purpose and operation.*

Inspector's Name: (Last, First, Initial)	EMPLID:
Verifying Officer's Signature:	Date:

Bridge/Navigation Inspection (BN)

D, H, & I Vessels

Task: HI-BN04 Inspect gyrocompass and repeaters

Condition: During bridge and navigation inspection

Standard: In compliance with applicable policies, laws, regulations and standards

- References:**
1. Title 46, Code of Federal Regulations Part 32 Tank Vessels - Special Equipment, Machinery & Hull Requirements
 2. Title 46, Code of Federal Regulations Part 77 Inspection and Certification
 3. Title 46, Code of Federal Regulations Part 96 Vessel Control and Miscellaneous Equipment
 4. Title 33, Code of Federal Regulations Part 164 Navigation Safety Regulations
 5. International Convention for the Safety of Life at Sea (SOLAS) 1974, as amended

Steps		References	Initials
BN04.1	Verify operation	46 CFR 32.15-35(b) 46 CFR 77.11-1(b) & 96.17-1(b) 33 CFR 164.35(d) & SOLAS 20 V/19.2.5	
BN04.2	Verify location and illumination of repeaters	46 CFR 32.15-35(c) 46 CFR 77.11-1(c) & 96.17-1(c) 33 CFR 164.35(e)	
BN04.3	Verify operation under emergency power	SOLAS 20 II-1/43.2.4.2	

Verifying Officer Guidance: *Trainee shall demonstrate a working knowledge of equipment's components, function, purpose and operation. During operational inspection ensure repeaters are synced to main gyro.*

Inspector's Name: (Last, First, Initial)	EMPLID:
Verifying Officer's Signature:	Date:

Task: HI-BN05 Inspect depth sounding/recording equipment

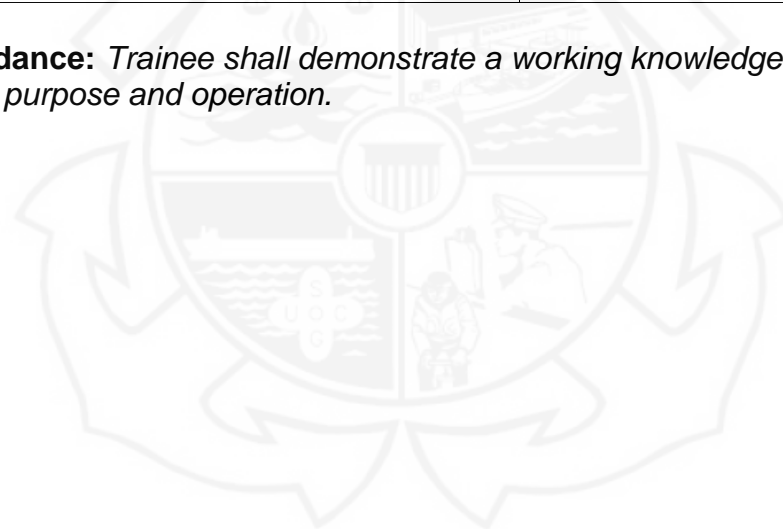
Condition: During bridge and navigation inspection

Standard: In compliance with applicable policies, laws, regulations and standards

- References:**
1. Title 46, Code of Federal Regulations Part 32 Tank Vessels - Special Equipment, Machinery & Hull Requirements
 2. Title 46, Code of Federal Regulations Part 77 Inspection and Certification
 3. Title 46, Code of Federal Regulations Part 96 Vessel Control and Miscellaneous Equipment
 4. Title 33, Code of Federal Regulations Part 164 Navigation Safety Regulations
 5. International Convention for the Safety of Life at Sea (SOLAS) 1974, as amended

Steps		References	Initials
BN05.1	Verify operation of depth sounding device	46 CFR 32.15-10 46 CFR 77.27-1 & 96.27 33 CFR 164.35(h) SOLAS 20 V/19.2.3.1	
BN05.2	Verify operation of continuous recording device	33 CFR 164.35(i)	

Verifying Officer Guidance: Trainee shall demonstrate a working knowledge of equipment's components, function, purpose and operation.



Inspector's Name: (Last, First, Initial)	EMPLID:
Verifying Officer's Signature:	Date:

Task: HI-BN06 Inspect satellite navigation receiver (GPS)

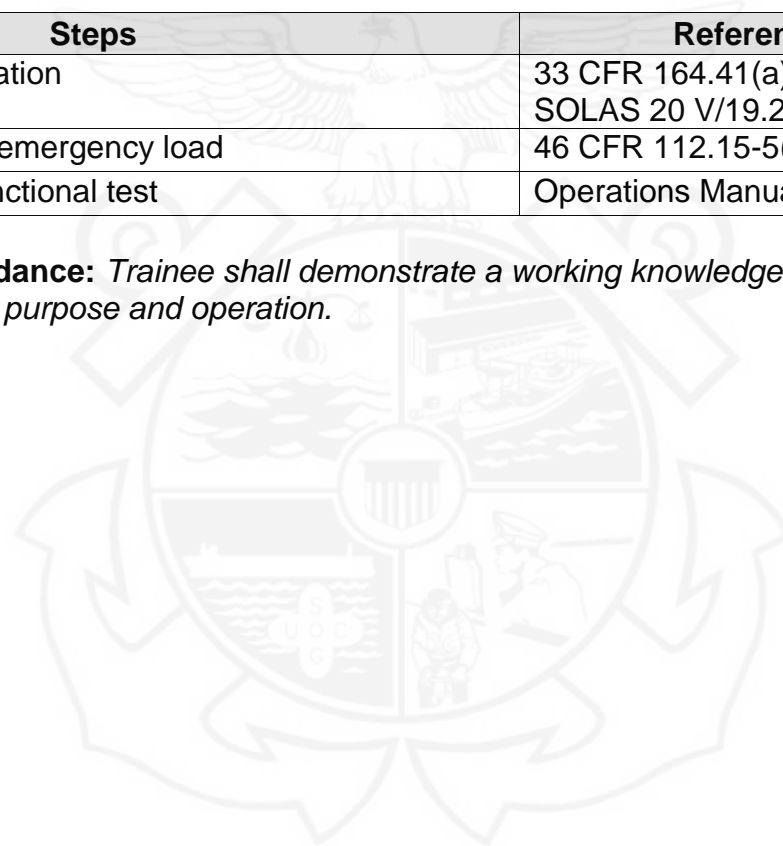
Condition: During bridge and navigation inspection

Standard: In compliance with applicable policies, laws, regulations and standards

- References:**
1. Title 33, Code of Federal Regulations Part 164 Navigation Safety Regulations
 2. Title 46, Code of Federal Regulations Part 112 Emergency Lighting & Power Systems
 3. International Convention for the Safety of Life at Sea (SOLAS) 1974, as amended
 4. Manufacturer's Operations Manual

Steps		References	Initials
BN06.1	Verify operation	33 CFR 164.41(a)(2) SOLAS 20 V/19.2.1.6	
BN06.2	Verify final emergency load	46 CFR 112.15-5(i)	
BN06.3	Witness functional test	Operations Manual	

Verifying Officer Guidance: Trainee shall demonstrate a working knowledge of equipment's components, function, purpose and operation.



Inspector's Name: (Last, First, Initial)	EMPLID:
Verifying Officer's Signature:	Date:

Bridge/Navigation Inspection (BN)

D, H, & I Vessels

Task: HI-BN07 Inspect operation of Automatic Identification System (AIS)

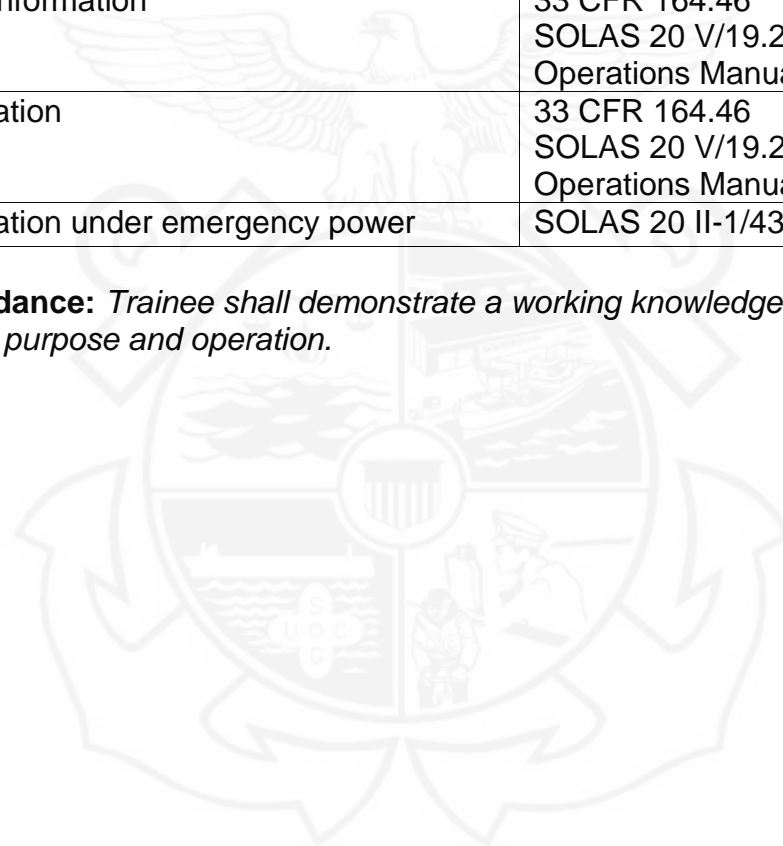
Condition: *During bridge and navigation inspection*

Standard: *In compliance with applicable policies, laws, regulations and standards*

- References:**
1. Title 33, Code of Federal Regulations Part 164 Navigation Safety Regulations
 2. International Convention for the Safety of Life at Sea (SOLAS) 1974, as amended
 3. Manufacturer's Operations Manual

Steps		References	Initials
BN07.1	Verify AIS information	33 CFR 164.46 SOLAS 20 V/19.2.4.5 Operations Manual	
BN07.2	Verify operation	33 CFR 164.46 SOLAS 20 V/19.2.4.5 Operations Manual	
BN07.3	Verify operation under emergency power	SOLAS 20 II-1/43.2.4.2	

Verifying Officer Guidance: *Trainee shall demonstrate a working knowledge of equipment's components, function, purpose and operation.*



Inspector's Name: (Last, First, Initial)	EMPLID:
Verifying Officer's Signature:	Date:

Bridge/Navigation Inspection (BN)

D, H, & I Vessels

Task: HI-BN08 Inspect Long Range Identification and Tracking Information (LRIT) equipment

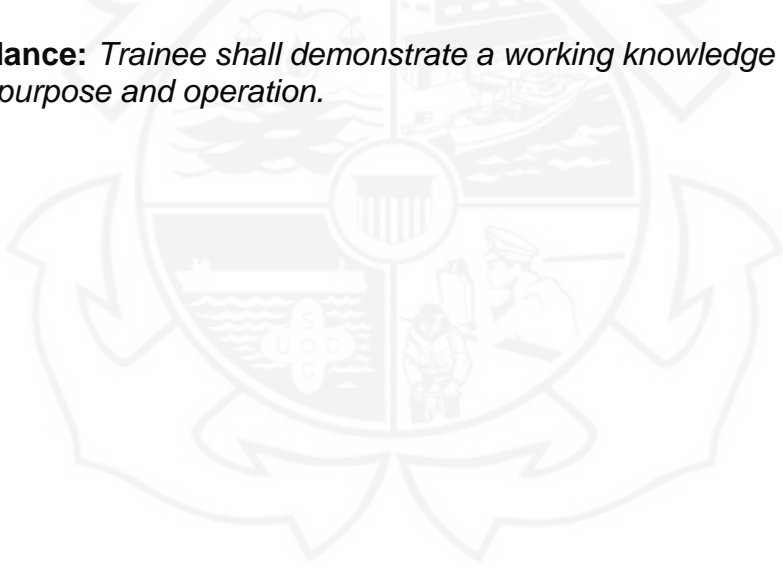
Condition: During bridge and navigation inspection

Standard: In compliance with applicable policies, laws, regulations and standards

- References:**
1. Title 33, Code of Federal Regulations Part 169 Ship Reporting Systems
 2. International Convention for the Safety of Life at Sea (SOLAS) 1974, as amended
 3. IMO MSC.1/Circ. 1307 Guidance on the Survey & Certification of Compliance of Ships with the Requirement to Transmit LRIT Information

Steps		References	Initials
BN08.1	Verify operation	33 CFR 169.215 33 CFR 169.230 SOLAS 20 V/19-1.5	
BN08.2	Review conformance test report	IMO MSC.1/Circ. 1307	
BN08.3	Verify logbook entries when equipment was switched off	33 CFR 169.245	

Verifying Officer Guidance: Trainee shall demonstrate a working knowledge of equipment's components, function, purpose and operation.



Inspector's Name: (Last, First, Initial)	EMPLID:
Verifying Officer's Signature:	Date:

Bridge/Navigation Inspection (BN)

D, H, & I Vessels

Task: HI-BN09 Inspect Global Maritime Distress and Safety System (GMDSS) equipment

Condition: During bridge and navigation inspection

Standard: In compliance with applicable policies, laws, regulations and standards

References:

1. Title 47, Code of Federal Regulations Part 80 Stations in the Maritime Services
2. International Convention for the Safety of Life at Sea (SOLAS) 1974, as amended
3. NVIC 03-99 GMDSS and EPIRB Equipment Requirements for Commercial Vessels
4. Manufacturer's Operations Manual

Steps		References	Initials
BN09.1	Verify presence	47 CFR 80.1065	
BN09.2	Verify Station ID numbers on applicable equipment	47 CFR 80.1083(a)(5) SOLAS 20 IV/6.2.5	
BN09.3	Review logs for tests and notations	47 CFR 80.1075 SOLAS 20 IV/17	
BN09.4	Verify required equipment for operation areas	47 CFR 80.1083 - .1095 SOLAS 20 IV/6.1 NVIC 03-99	
BN09.5	Verify operation of VHF Digital Selective Calling (DSC) radio	47 CFR 80.1085(a)(1) & (2) SOLAS 20 IV/7.1	
BN09.6	Verify operation of NAVTEX receiver or Safety Net	47 CFR 80.1085(a)(4) & (5)	
BN09.7	Verify emergency source of power is provided	47 CFR 80.1099(b) SOLAS 20 IV/13.2	
BN09.8	Verify presence of maintenance manuals, tools, spare parts and test equipment	47 CFR 80.1105 SOLAS 20 IV/15 Operations Manual	
BN09.9	Verify compliance with maintenance method(s)	47 CFR 80.1105(c) & (d) SOLAS 20 IV/15.6 & .7 NVIC 03-99	

Verifying Officer Guidance: Trainee shall demonstrate a working knowledge of equipment's components, function, purpose and operation.

Inspector's Name: (Last, First, Initial)

EMPLID:

Verifying Officer's Signature:

Date:

Task: HI-BN10 Inspect radiotelephone equipment

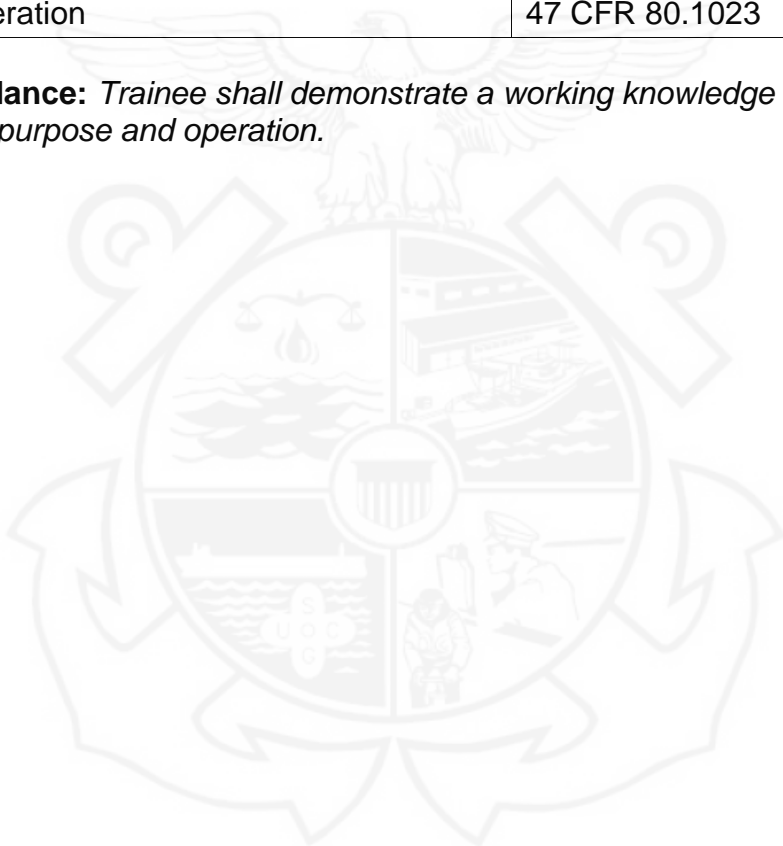
Condition: *During bridge and navigation inspection*

Standard: *In compliance with applicable policies, laws, regulations and standards*

References: 1. Title 47, Code of Federal Regulations Part 80 Stations in the Maritime Services

Steps		References	Initials
BN10.1	Verify installation(s)	47 CFR 80.1003	
BN10.2	Verify equipment for operational areas	47 CFR 80.1087, 89, 91	
BN10.3	Witness operation	47 CFR 80.1023	

Verifying Officer Guidance: *Trainee shall demonstrate a working knowledge of equipment's components, function, purpose and operation.*



Inspector's Name: (Last, First, Initial)	EMPLID:
Verifying Officer's Signature:	Date:

Bridge/Navigation Inspection (BN)

D, H, & I Vessels

Task: HI-BN11 Inspect Voyage Data Recorder (VDR)

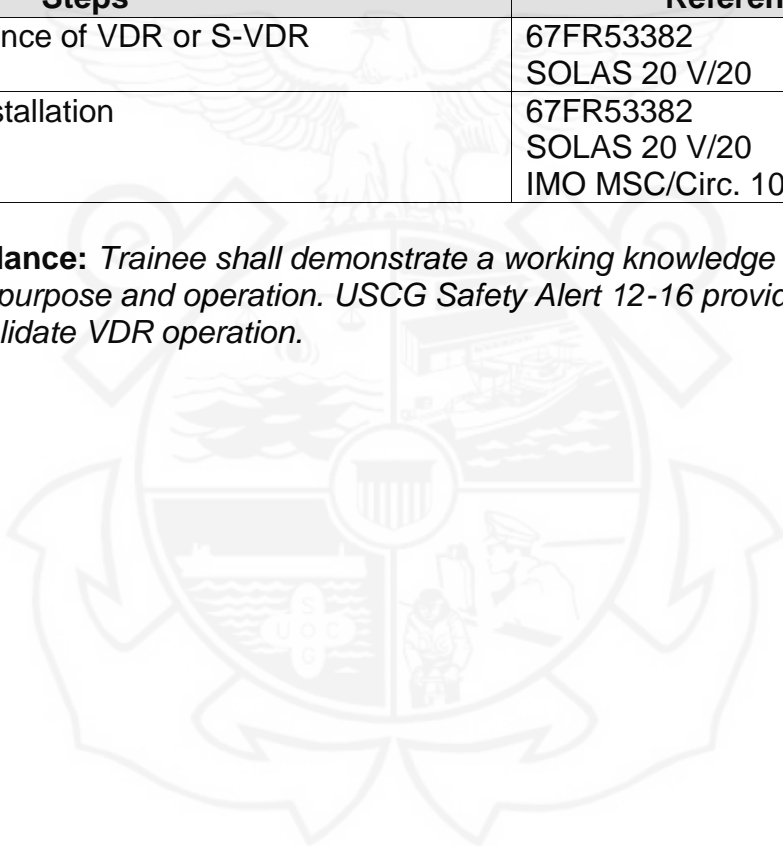
Condition: *During bridge and navigation inspection*

Standard: *In compliance with applicable policies, laws, regulations and standards*

- References:**
1. 67FR53382 Carriage of Navigation Equipment for Ships on International Voyages
 2. International Convention for the Safety of Life at Sea (SOLAS) 1974, as amended
 3. IMO MSC/Circ. 1024 Guidelines on Voyage Data Recorder (VDR) Ownership and Recovery

Steps		References	Initials
BN11.1	Verify presence of VDR or S-VDR	67FR53382 SOLAS 20 V/20	
BN11.2	Examine installation	67FR53382 SOLAS 20 V/20 IMO MSC/Circ. 1024	

Verifying Officer Guidance: *Trainee shall demonstrate a working knowledge of equipment's components, function, purpose and operation. USCG Safety Alert 12-16 provides guidance for vessel owners/operators to validate VDR operation.*



Inspector's Name: (Last, First, Initial)	EMPLID:
Verifying Officer's Signature:	Date:

Bridge/Navigation Inspection (BN)

D, H, & I Vessels

Task: HI-BN12 Inspect lifeboat radios

Condition: During bridge and navigation inspection

Standard: In compliance with applicable policies, laws, regulations and standards

- References:**
1. Title 46, Code of Federal Regulations Part 35 Tank Vessels - Operations
 2. Title 46, Code of Federal Regulations Part 78 Passenger Vessels - Operations
 3. Title 46, Code of Federal Regulations Parts 96 & 199
 4. Title 47, Code of Federal Regulations Part 80 Stations in the Maritime Services
 5. International Convention for the Safety of Life at Sea (SOLAS) 1974, as amended
 6. IMO Resolution MSC.149(77) Revised Recommendation on Performance Standards for Survival Craft Portable Two-Way Vhf Radiotelephone Apparatus

Steps		References	Initials
BN12.1	Parent cites	46 CFR 31.36-1 46 CFR 77.06-1 46 CFR 96.06-1	
BN12.2	Verify availability	46 CFR 199.60(a) SOLAS 20 III/6.2.1	
BN12.3	Verify functionality	46 CFR 199.60(a) 47 CFR 80.271 IMO Res A.809(19)	
BN12.4	Verify power supply	SOLAS 20 III/6.2.1 MSC.149(77) Sec 12	

Verifying Officer Guidance: Trainee shall demonstrate a working knowledge of the equipment's components, function, type approval and operation.

Inspector's Name: (Last, First, Initial)	EMPLID:
Verifying Officer's Signature:	Date:

Bridge/Navigation Inspection (BN)

D, H, & I Vessels

Task: HI-BN13 Inspect Search and Rescue Locating Devices (Radar SART & AIS - SART)

Condition: During bridge and navigation inspection

Standard: In compliance with applicable policies, laws, regulations and standards

- References:**
1. Title 46, Code of Federal Regulations Part 35 Tank Vessels - Operations
 2. Title 46, Code of Federal Regulations Part 78 Passenger Vessels - Operations
 3. Title 46, Code of Federal Regulations Parts 96 & 199
 4. International Convention for the Safety of Life at Sea (SOLAS) 1974, as amended
 5. IMO Resolution MSC.247(83) Adoption of Amendments to Performance Standards for Survival Craft Radar Transponders for Use in Search & Rescue Operations (Res.A.802(19))
 6. IMO Resolution MSC.246(83) Adoption of Performance Standards for Survival Craft AIS Search and Rescue Transmitters (AIS-SART) for Use in Search and Rescue Operations

Steps		References	Initials
BN13.1	Parent cities	46 CFR 31.36-1 46 CFR 77.06-1 46 CFR 96.06-1	
BN13.2	Verify availability	46 CFR 199.60 SOLAS 20 III/6.2.2	
BN13.3	Verify functionality	46 CFR 199.190(e)(2) IMO Res MSC.247(83) IMO Res MSC.246(83)	
BN13.4	Verify battery date	46 CFR 199.190(f)(4) IMO Res MSC.247(83) IMO Res MSC.246(83)	
BN13.5	Verify markings	46 CFR 199.60(b)	

Verifying Officer Guidance: Trainee shall demonstrate a working knowledge of the equipment's components, function(s), type approval and operation.

Inspector's Name: (Last, First, Initial)	EMPLID:
Verifying Officer's Signature:	Date:

Bridge/Navigation Inspection (BN)

D, H, & I Vessels

Task: HI-BN14 Inspect steering system controls at Operating Station

Condition: During bridge and navigation inspection

Standard: In compliance with applicable policies, laws, regulations and standards

- References:**
1. Title 46, Code of Federal Regulations Part 31 Tank Vessels - Inspection & Certification
 2. Title 46, Code of Federal Regulations Part 10 Merchant Mariner Credential
 3. Title 46, Code of Federal Regulations Parts 58, 71, 78, 96 & 97
 4. Title 46, Code of Federal Regulations Part 113 Communication & Alarm Systems & Equipment
 5. International Convention for the Safety of Life at Sea (SOLAS) 1974, as amended
 6. COMDTINST M16000.7B Marine Safety Manual Volume II Material Inspection Ch-2

Steps		References	Initials
BN14.1	Parent cites	46 CFR 31.30-1 46 CFR 71.25-35 46 CFR 96.03-1	
BN14.2	Verify presence of steering gear instructions, diagrams & markings	33 CFR 164.35(k)	
BN14.3	Witness operation and illumination of rudder angle indicator	46 CFR 58.25-25(a) & (b) 33 CFR 164.35(f) MSM II/C.4.C.4	
BN14.4	Verify operation in follow-up and non follow-up mode	46 CFR 113.40 SOLAS 20 II-1/29	
BN14.5	Verify operation of steering failure alarms	46 CFR 58.25-25(c) 46 CFR 113.43 SOLAS 20 II-1/29	
BN14.6	Verify rudder orders	46 CFR 35.40-35 46 CFR 78.47-57 46 CFR 97.37-35	

Verifying Officer Guidance: Trainee shall demonstrate a working knowledge of equipment's components, function, purpose and operation.

Inspector's Name: (Last, First, Initial)

EMPLID:

Verifying Officer's Signature:

Date:

Bridge/Navigation Inspection (BN)

D, H, & I Vessels

Task: HI-BN15 Inspect navigation lights & shapes

Condition: *During bridge and navigation inspection*

Standard: *In compliance with applicable policies, laws, regulations and standards*

- References:**
1. Title 33, Code of Federal Regulations Parts 81, 83 & 84
 2. Title 46, Code of Federal Regulations Part 32 Tank Vessels - Special Equipment, Machinery & Hull Requirements
 3. Title 46, Code of Federal Regulations Parts 77 & 96
 4. Title 46, Code of Federal Regulations Part 111 Electric Systems General Requirements
 5. International Convention for the Safety of Life at Sea (SOLAS) 1974, as amended
 6. International Regulations for Preventing Collisions at Sea (COLREG) 1972, as amended

Steps		References	Initials
BN15.1	Parent cites	46 CFR 32.45-1 46 CFR 77.05-1 46 CFR 96.05-1	
BN15.2	Verify operation of navigation and anchor lights	46 CFR 111.75-17	
BN15.3	Verify operation of navigation light indicator panel	46 CFR 111.75-17(b)	
BN15.4	Examine dayshapes	33 CFR 83.20(d) COLREGS Rule 20 33 CFR 84.06	
BN15.5	Examine daylight signaling lamp	33 CFR 83.34(b) COLREGS Rule 34 SOLAS 20 V/19.2.2.2	
BN15.6	Review Certificate of Alternative Compliance	33 CFR 81.9	

Verifying Officer Guidance: *Trainee shall demonstrate a working knowledge of equipment's components, function, purpose and operation.*

Inspector's Name: (Last, First, Initial)	EMPLID:
Verifying Officer's Signature:	Date:

Bridge/Navigation Inspection (BN)

D, H, & I Vessels

Task: HI-BN16 Inspect sound signaling devices

Condition: *During bridge and navigation inspection*

Standard: *In compliance with applicable policies, laws, regulations and standards*

- References:**
1. Title 33, Code of Federal Regulations Part 83 Inland Navigation Rules - Rules
 2. Title 46, Code of Federal Regulations Part 32 Tank Vessels - Special Equipment, Machinery & Hull Requirements
 3. Title 46, Code of Federal Regulations Part 35 Tank Vessels - Operations
 4. Title 46, Code of Federal Regulations Part 71 Inspection and Certification
 5. Title 46, Code of Federal Regulations Parts 78, 91 & 97
 6. International Regulations for Preventing Collisions at Sea (COLREG) 1972, as amended

Steps		References	Initials
BN16.1	Parent cites	46 CFR 32.15-5 46 CFR 71.25-10 46 CFR 91.25-10	
BN16.2	Witness operation of ship's whistle	33 CFR 86.01 (annex III) COLREGS Rule 33	
BN16.3	Witness operation of ship's bell	33 CFR 86.02, (annex III) COLREGS Rule 33	
BN16.4	Witness operation of ship's gong	33 CFR 86.02,(annex III) COLREGS Rule 33	
BN16.5	Verify required tests	46 CFR 35.20-10 46 CFR 78.17-15 46 CFR 97.15-3	

Verifying Officer Guidance: *Trainee shall demonstrate a working knowledge of equipment's components, function, purpose and operation.*

Inspector's Name: (Last, First, Initial)	EMPLID:
Verifying Officer's Signature:	Date:

Bridge/Navigation Inspection (BN)

D, H, & I Vessels

Task: HI-BN17 Inspect charts and publications**Condition:** *During bridge/navigation examination***Standard:** *In compliance with applicable policies, laws, regulations and standards*

- References:**
1. Title 33, Code of Federal Regulations Part 83 Inland Navigation Rules - Rules
 2. Title 33, Code of Federal Regulations Part 164 Navigation Safety Regulations
 3. Title 46, Code of Federal Regulations Parts 35, 78 & 97
 4. International Convention for the Safety of Life at Sea (SOLAS) 1974, as amended
 5. International Regulations for Preventing Collisions at Sea (COLREG) 1972, as amended
 6. NVIC 01-16 Use of Electronic Charts and Publications in lieu of Paper Charts, Maps and Publications Ch-1

Steps		References	Initials
BN17.1	Verify presence of current, applicable and corrected charts and/or Electronic Chart Display & Information System (ECDIS)	46 CFR 35.20-1 46 CFR 78.05-5, 97.05-5 NVIC 01-16	
BN17.2	Verify presence of current and applicable Tide Tables	46 CFR 35.20-1 46 CFR 78.05-5, 97.05-5 33 CFR 164.30 & .33	
BN17.3.	Verify presence of current and applicable Coast Guard Light List	46 CFR 35.20-1 46 CFR 78.05-5, 97.05-5 33 CFR 164.30 & .33	
BN17.4	Verify presence of current and applicable Current Tables	46 CFR 35.20-1 46 CFR 78.05-5, 97.05-5 33 CFR 164.30 & .33	
BN17.5	Verify presence of USCG Inland Navigation Rules	33 CFR 83.01	
BN17.6	Verify presence of COLREGS	COLREGS Rule 1	
BN17.7	Verify presence of current and applicable U.S. Coast Pilot	46 CFR 35.20-1 46 CFR 78.05-5 & 97.05-5	
BN17.8	Verify presence of International Code of Signals	SOLAS 20 V/21.1	
BN17.9	Verify presence and content of maneuvering fact sheet	46 CFR 35.20-40 46 CFR 78.21-1, 97.19-1	
BN17.10	Verify presence of International Aeronautical and Maritime Search and Rescue (IAMSAR) manual	SOLAS 20 V/21.2	
BN17.11	Verify presence of sailing directions and notice to mariners	46 CFR 35.20-1 46 CFR 78.05-5, 97.05-5	

Verifying Officer Guidance:

Inspector's Name: (Last, First, Initial)	EMPLID:
Verifying Officer's Signature:	Date:

General Health & Safety Inspection (GH)

D, H, & I Vessels

Task: HI-GH01 Inspect accommodation spaces

Condition: During general health and safety inspection

Standard: In compliance with applicable policies, laws, regulations and standards

- References:**
1. Title 33, Code of Federal Regulations Part 151 Vessels Carrying Oil, NLS, Garbage, Municipal or Commercial Waste & Ballast Water
 2. Title 46, Code of Federal Regulations Part 32 Tank Vessels - Special Equipment, Machinery & Hull Requirements
 3. Title 46, Code of Federal Regulations Part 72 Passenger Vessels - Construction & Arrangement
 4. Title 46, Code of Federal Regulations Part 92 Cargo & Miscellaneous Vessels - Construction & Arrangement
 5. Title 46, Code of Federal Regulations Parts 111 & 199
 6. International Convention for the Prevention of Pollution from Ships (MARPOL) 1973, as amended

Steps		References	Initials
GH01.1	Verify location	46 CFR 32.40-10, 72.20-10, 92.20-10	
GH01.2	Verify number of berths	46 CFR 32.40-20, 72.20-20, 92.20-20	
GH01.3	Verify appropriate size	46 CFR 32.40-20, 72.20-20, 92.20-20	
GH01.4	Verify accessibility to escape routes	46 CFR 32.02-1, 72.10, 92.10	
GH01.5	Verify heating/cooling/ventilation	46 CFR 32.40-50 46 CFR 72.15-20, 72.20-50 46 CFR 92.15-15, 92.20-50	
GH01.6	Verify sanitary condition	46 CFR 32.40-15, 72.20-15, 92.20-15	
GH01.7	Verify washrooms & toilets are suitable	46 CFR 32.40-25, 72.20-25, 92.20-25	
GH01.8	Verify lighting	46 CFR 32.40-45, 72.20-45 46 CFR 92.20-45 46 CFR 111.75-15(d)	
GH01.9	Verify insect screens	46 CFR 32.40-55 46 CFR 72.20-55 46 CFR 92.20-55	
GH01.10	Verify adequate exit (egress) lighting/markings	46 CFR 199.110(d) 46 CFR 111.75-15(c)	
GH01.11	Verify compliance with garbage management plan	33 CFR 151.57 MARPOL V/9.2	

Verifying Officer Guidance: Trainee shall demonstrate a working knowledge of requirements for accommodation spaces.

Inspector's Name: (Last, First, Initial)	EMPLID:
Verifying Officer's Signature:	Date:

General Health & Safety Inspection (GH)

D, H, & I Vessels

Task: HI-GH02 Inspect galley spaces and messrooms

Condition: During general health and safety inspection

Standard: In compliance with applicable policies, laws, regulations and standards

- References:**
1. Title 33, Code of Federal Regulations Part 151 Vessels Carrying Oil, NLS, Garbage, Municipal or Commercial Waste & Ballast Water
 2. Title 46, Code of Federal Regulations Parts 31, 32, 34, 71, 72, 75, 91, 92, 95, 110, 111 & 113
 3. International Convention for the Safety of Life at Sea (SOLAS) 1974, as amended
 4. International Convention for the Prevention of Pollution from Ships (MARPOL) 1973, as amended
 5. IEEE Std 45, Recommended Practice for Electrical Installations on Shipboard, 2002
 6. COMDTINST M16000.7B Marine Safety Manual Volume II Material Inspection Ch-2

Steps		References	Initials
GH02.1	Examine sanitary condition	46 CFR 32.40-15 46 CFR 72.20-15 46 CFR 92.20-15	
GH02.2	Verify operation of electric stove & deep fryer disconnect	46 CFR 111.77 IEEE 45/42.1.6	
GH02.3	Examine fire fighting equipment	46 CFR 34.50-10, 75.50-10 46 CFR 95.50-10 SOLAS 20 II-2/10.6.4	
GH02.4	Verify operation of refrigerated spaces alarm(s)	46 CFR 113.45-5	
GH02.5	Verify installation of sea rails on range tops/griddles	46 CFR 110.10-1(j)(6) IEEE 45/19.1.7	
GH02.6	Verify ventilation	46 CFR 32.55-1 46 CFR 72.05-50 & 92.07-10 SOLAS 20 II-2/9.7.5.2.1	
GH02.7	Examine condition of vents and ducts	MSM II/B.1.N.9	
GH02.8	Verify compliance with garbage management plan	33 CFR 151.57 MARPOL V/9.2	
GH02.9	Verify required sanitary inspections	46 CFR 31.10-45 46 CFR 71.45-1 46 CFR 91.35-1	

Verifying Officer Guidance: Trainee shall demonstrate working knowledge of requirements for galleys & messrooms, including equipment's components, function, type approval, characteristics of the extinguishing agent and operation. Must know requirements for refrigerated space alarms.

Inspector's Name: (Last, First, Initial)	EMPLID:
Verifying Officer's Signature:	Date:

General Health & Safety Inspection (GH)

D, H, & I Vessels

Task: HI-GH03 Inspect liquefied petroleum gas systems for cooking and heat

Condition: During general health and safety inspection

Standard: In compliance with applicable policies, laws, regulations and standards

- References:**
1. Title 46, Code of Federal Regulations Part 31 Tank Vessels - Inspection & Certification
 2. Title 46, Code of Federal Regulations Part 58 Main & Auxiliary Machinery & Related Systems
 3. Title 46, Code of Federal Regulations Part 71 Passenger Vessels - Inspection & Certification
 4. Title 46, Code of Federal Regulations Part 91 Cargo & Miscellaneous Vessels - Inspection & Certification

Steps		References	Initials
GH03.1	Parent cites	46 CFR 31.30-1 46 CFR 71.15-1 46 CFR 91.15-1	
GH03.2	Verify gas appliance approval(s)	46 CFR 58.16-10(a)	
GH03.3	Verify cylinder markings	46 CFR 58.16-10(b)	
GH03.4	Verify safety relief device and system component approvals	46 CFR 58.16-10(c) & (d)	
GH03.5	Examine system shutoff valves	46 CFR 58.16-15	
GH03.6	Examine reducing regulators	46 CFR 58.16-16	
GH03.7	Verify installation of cylinders, piping and appliances	46 CFR 58.16-17 & -18	
GH03.8	Verify performance of periodic leak tests	46 CFR 58.16-19(b)	
GH03.9	Verify space ventilation	46 CFR 58.16-20	
GH03.10	Review operating instructions and markings	46 CFR 58.16-30 & -35	

Verifying Officer Guidance: Trainee shall demonstrate a working knowledge of requirements for galleys, including the equipment's components, function, type approval and operation.

Inspector's Name: (Last, First, Initial)	EMPLID:
Verifying Officer's Signature:	Date:

General Health & Safety Inspection (GH)

D, H, & I Vessels

Task: HI-GH04 Inspect hospital space

Condition: During general health and safety inspection

Standard: In compliance with applicable policies, laws, regulations and standards

- References:**
1. Title 46, Code of Federal Regulations Part 32 Tank Vessels - Special Equipment, Machinery & Hull Requirements
 2. Title 46, Code of Federal Regulations Part 72 Passenger Vessels - Construction & Arrangement
 3. Title 46, Code of Federal Regulations Part 92 Cargo & Miscellaneous Vessels - Construction & Arrangement
 4. Inspection of Labour Conditions On Board Ship: Guide-lines for Procedure (ILO-147)

Steps		References	Initials
GH04.1	Verify presence of a designated space	46 CFR 32.40-35(a) 46 CFR 72.20-35(a) 46 CFR 92.20-35(a)	
GH04.2	Verify space not used for stowage or berthing	46 CFR 32.40-35(b) 46 CFR 72.20-35(b) 46 CFR 92.20-35(b)	
GH04.3	Verify suitable equipment and dedicated washroom	46 CFR 32.40-35(d) 46 CFR 72.20-35(d) 46 CFR 92.20-35(d)	
GH04.4	Verify approved medicine chest Confirm page	ILO -147 Guidelines pg.38 (26)	

Verifying Officer Guidance: Trainee shall demonstrate a working knowledge of requirements for hospital spaces, including the equipment's components, function, type approval, and operation. Note: The ILO 147 Guidelines require an approved medicine chest onboard.

Inspector's Name: (Last, First, Initial)	EMPLID:
Verifying Officer's Signature:	Date:

General Health & Safety Inspection (GH)

D, H, & I Vessels

Task: HI-GH05 Inspect other crew spaces

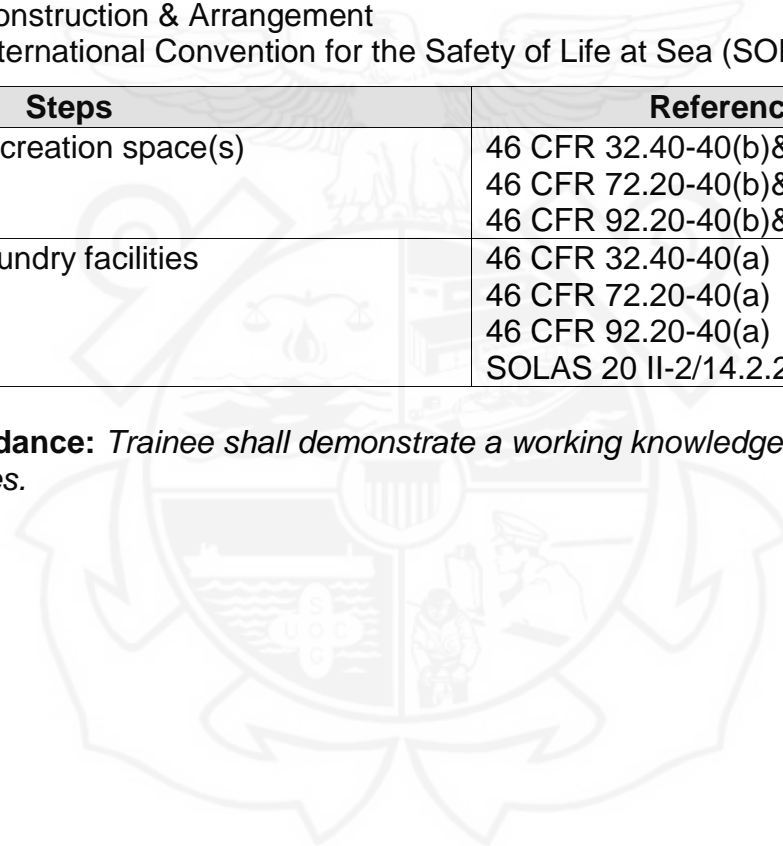
Condition: During general health and safety inspection

Standard: In compliance with applicable policies, laws, regulations and standards

- References:**
1. Title 46, Code of Federal Regulations Part 32 Tank Vessels - Special Equipment, Machinery & Hull Requirements
 2. Title 46, Code of Federal Regulations Part 72 Passenger Vessels - Construction & Arrangement
 3. Title 46, Code of Federal Regulations Part 92 Cargo & Miscellaneous Vessels - Construction & Arrangement
 4. International Convention for the Safety of Life at Sea (SOLAS) 1974, as amended

Steps		References	Initials
GH05.1	Examine recreation space(s)	46 CFR 32.40-40(b)&(c) 46 CFR 72.20-40(b)&(c) 46 CFR 92.20-40(b)&(c)	
GH05.2	Examine laundry facilities	46 CFR 32.40-40(a) 46 CFR 72.20-40(a) 46 CFR 92.20-40(a) SOLAS 20 II-2/14.2.2.3.5	

Verifying Officer Guidance: Trainee shall demonstrate a working knowledge of requirements for accommodation spaces.



Inspector's Name: (Last, First, Initial)	EMPLID:
Verifying Officer's Signature:	Date:

Lifesaving Equipment (LS)

D, H, & I Vessels

Task: HI-LS01 Inspect Emergency Position Indicating Radio Beacon (EPIRB)

Condition: *During bridge and navigation inspection*

Standard: *In compliance with applicable policies, laws, regulations and standards*

- References:**
1. Title 46, Code of Federal Regulations Part 35 Tank Vessels - Operations
 2. Title 46, Code of Federal Regulations Part 78 Passenger Vessels - Operations
 3. Title 46, Code of Federal Regulations Part 97 Cargo & Miscellaneous Vessels - Operations
 4. Title 46, Code of Federal Regulations Part 199 Lifesaving Systems for Certain Inspected Vessels
 5. Title 47, Code of Federal Regulations Part 80 Stations in the Maritime Services
 6. International Convention for the Safety of Life at Sea (SOLAS) 1974, as amended

Steps		References	Initials
LS01.1	Parent cites	46 CFR 31.36-1 46 CFR 71.25-15 46 CFR 91.25-15	
LS01.2	Verify registration	47 CFR 80.1061(e) & (f)	
LS01.3	Verify stowage	46 CFR 199.510(b) SOLAS 20 IV/7.6	
LS01.4	Verify hydro-static release expiration date	46 CFR 199.510 SOLAS 20 IV/7.6	
LS01.5	Verify battery date	46 CFR 199.190 SOLAS 20 IV/7.6	
LS01.6	Verify marking	46 CFR 199.60(b)	
LS01.7	Validate testing	46 CFR 199.190	

Verifying Officer Guidance: *Trainee shall demonstrate a working knowledge of the equipment's components, function, type approval and operation.*

Inspector's Name: (Last, First, Initial)	EMPLID:
Verifying Officer's Signature:	Date:

Lifesaving Equipment Inspection (LS)

D, H, & I Vessels

Task: HI-LS02 Inspect line throwing equipment

Condition: During lifesaving equipment inspection

Standard: In compliance with applicable policies, laws, regulations and standards

- References:**
1. Title 46, Code of Federal Regulations Part 31 Tank Vessels - Inspection & Certification
 2. Title 46, Code of Federal Regulations Part 71 Passenger Vessels - Inspection & Certification
 3. Title 46, Code of Federal Regulations Parts, 91 & 199
 4. Title 46, Code of Federal Regulations Part 160 Equipment, Construction & Materials: Specifications & Approval - Lifesaving Equipment
 5. International Convention for the Safety of Life at Sea (SOLAS) 1974, as amended
 6. Lifesaving Appliances including LSA Code, 2017

Steps		References	Initials
LS02.1	Parent cites	46 CFR 31.36-1 46 CFR 71.25-15 46 CFR 91.25-15	
LS02.2	Verify stowage, quantity and type approval	46 CFR 199.170 46 CFR 160.031 & .040 SOLAS 20 III/18	
LS02.3	Verify inventory list and equipment	46 CFR 199.170 SOLAS 20 III/18 LSA Code 7.1	
LS02.4	Verify markings on primer cartridges	46 CFR 160.031-6 46 CFR 160.040-6 SOLAS 20 III/18	
LS02.5	Verify presence of service and maintenance instructions	46 CFR 160.031-4 46 CFR 160.040-4	

Verifying Officer Guidance: Trainee shall demonstrate a working knowledge of the equipment's components, function, type approval and operation.

Inspector's Name: (Last, First, Initial)	EMPLID:
Verifying Officer's Signature:	Date:

Lifesaving Equipment Inspection (LS)

D, H, & I Vessels

Task: HI-LS03 Inspect distress signals

Condition: *During lifesaving equipment inspection*

Standard: *In compliance with applicable policies, laws, regulations and standards*

- References:**
1. Title 46, Code of Federal Regulations Part 31 Tank Vessels - Inspection & Certification
 2. Title 46, Code of Federal Regulations Part 71 Passenger Vessels - Inspection & Certification
 3. Title 46, Code of Federal Regulations Part 91 Cargo & Miscellaneous Vessels - Inspection & Certification
 4. Title 46, Code of Federal Regulations Parts 160 & 199
 5. International Convention for the Safety of Life at Sea (SOLAS) 1974, as amended
 6. Lifesaving Appliances including LSA Code, 2017

Steps		References	Initials
LS03.1	Parent cites	46 CFR 31.36-1 46 CFR 71.25-15 46 CFR 91.25-15	
LS03.2	Verify stowage and markings	46 CFR 199.60 46 CFR 160.036 SOLAS 20 III/6.3	
LS03.3	Verify quantity	46 CFR 199.60 SOLAS 20 III/6.3	
LS03.4	Verify expiration date	46 CFR 160.036 LSA Code 1.2.3	
LS03.5	Verify type approval	46 CFR 199.60 46 CFR 160.036 SOLAS 20 III/34	

Verifying Officer Guidance: *Trainee shall demonstrate a working knowledge of the equipment's components, function, type approval and operation.*

Inspector's Name: (Last, First, Initial)	EMPLID:
Verifying Officer's Signature:	Date:

Lifesaving Equipment Inspection (LS)

D, H, & I Vessels

Task: HI-LS04 Inspect lifebuoys

Condition: *During lifesaving equipment inspection*

Standard: *In compliance with applicable policies, laws, regulations and standards*

- References:**
1. Title 46, Code of Federal Regulations Part 31 Tank Vessels - Inspection & Certification
 2. Title 46, Code of Federal Regulations Part 71 Passenger Vessels - Inspection & Certification
 3. Title 46, Code of Federal Regulations Part 91 Cargo & Miscellaneous Vessels - Inspection & Certification
 4. Title 46, Code of Federal Regulations Part 199 Lifesaving Systems for Certain Inspected Vessels
 5. International Convention for the Safety of Life at Sea (SOLAS) 1974, as amended

Steps		References	Initials
LS04.1	Parent cites	46 CFR 31.36-1 46 CFR 71.25-15 46 CFR 91.25-15	
LS04.2	Verify type approval	46 CFR 199.70(a) SOLAS 20 III/4	
LS04.3	Verify quantity	46 CFR 199.271 SOLAS 20 III/7.1.1.1 SOLAS 20 III/32	
LS04.4	Verify stowage	46 CFR 199.70(a)(1) SOLAS 20 III/7.1.1.1	
LS04.5	Verify markings	46 CFR 199.70(a)(2) SOLAS 20 III/7.1.4	
LS04.6	Examine attachments and fittings	46 CFR 199.70(a)(3) SOLAS 20 III/7.1.2 SOLAS 20 III/7.1.3	
LS04.7	Verify size/weight	46 CFR 160.050-4(e) SOLAS 20 III/7.1.1	
LS04.8	Examine condition and suitability	46 CFR 199.70	

Verifying Officer Guidance: *Trainee shall demonstrate a working knowledge of the equipment's components, function(s), type approval and operation.*

Inspector's Name: (Last, First, Initial)	EMPLID:
Verifying Officer's Signature:	Date:

Lifesaving Equipment Inspection (LS)

D, H, & I Vessels

Task: HI-LS05 Inspect inflatable liferaft installations

Condition: During lifesaving equipment inspection

Standard: In compliance with applicable policies, laws, regulations and standards

- References:**
1. Title 46, Code of Federal Regulations Part 31 Tank Vessels - Inspection & Certification
 2. Title 46, Code of Federal Regulations Part 71 Passenger Vessels - Inspection & Certification
 3. Title 46, Code of Federal Regulations Part 91 Cargo & Miscellaneous Vessels - Inspection & Certification
 4. Title 46, Code of Federal Regulations Part 199 Lifesaving Systems for Certain Inspected Vessels
 5. International Convention for the Safety of Life at Sea (SOLAS) 1974, as amended
 6. IMO Resolution A.654(16) Graphical Symbols for Fire Control Plans

Steps		References	Initials
LS05.1	Parent cites	46 CFR 31.36-1 46 CFR 71.25-15 46 CFR 91.25-15	
LS05.2	Verify type approval	46 CFR 199.261(a)(3) SOLAS 20 III/4	
LS05.3	Verify quantity	46 CFR 199.261(b)(2)(i)& (ii) SOLAS 20 III/31.1.1.2	
LS05.4	Verify stowage & installation	46 CFR 199.130(a) & (c) SOLAS 20 III/13	
LS05.5	Verify markings	46 CFR 199.176(b) 46 CFR 199.178 IMO Res A.654(16)	
LS05.6	Verify service dates	46 CFR 199.190(g) SOLAS 20 III/20.8.1	
LS05.7	Verify emergency instructions are posted	46 CFR 199.90 SOLAS 20 III/9	
LS05.8	Examine embarkation ladder	46 CFR 199.110(f) SOLAS 20 III/11.7	

Verifying Officer Guidance: Trainee shall demonstrate a working knowledge of the equipment's components, function, type approval and operation. Trainee shall clearly state how to evaluate installation arrangements.

Inspector's Name: (Last, First, Initial)	EMPLID:
Verifying Officer's Signature:	Date:

Lifesaving Equipment Inspection (LS)

D, H, & I Vessels

Task: HI-LS06 Inspect lifeboats

Condition: *During lifesaving equipment inspection*

Standard: *In compliance with applicable policies, laws, regulations and standards*

- References:**
1. Title 46, Code of Federal Regulations Part 31 Tank Vessels - Inspection & Certification
 2. Title 46, Code of Federal Regulations Parts 71, 91 & 199
 3. International Convention for the Safety of Life at Sea (SOLAS) 1974, as amended
 4. Lifesaving Appliances including LSA Code, 2017
 5. COMDTINST M16000.7B Marine Safety Manual Volume II Material Inspection Ch-2
 6. IMO Resolution A.654(16) Graphical Symbols for Fire Control Plans

Steps		References	Initials
LS06.1	Parent cites	46 CFR 31.36-1 46 CFR 71.25-15 46 CFR 91.25-15	
LS06.2	Verify type approval	46 CFR 199.261(a)(1) SOLAS 20 III/4	
LS06.3	Verify stowage	46 CFR 199.130(a) 46 CFR 199.130(b) SOLAS 20 III/13	
LS06.4	Verify markings	46 CFR 199.176(a) 46 CFR 199.178 IMO Res A.654(16)	
LS06.5	Examine equipment	46 CFR 199.175 LSA Code 4.4.8	
LS06.6	Examine condition	46 CFR 199.190 SOLAS 20 III/20.2 MSM II/C.2.H	
LS06.7	Verify operating instructions are posted	46 CFR 199.90 SOLAS 20 III/9	
LS06.8	Examine embarkation ladder	46 CFR 199.110(f) SOLAS 20 III/17	
LS06.9	Verify operation	MSM II/B.1.P	
LS06.10	Examine lifeboat release mechanisms	SOLAS 20 III/1.5 LSA Code 4.7.6.6 LSA Code 4.4.7.6.4 & .5	

Verifying Officer Guidance: *Trainee shall demonstrate a working knowledge of the equipment's components, function, type approval and operation. Trainee shall state how to evaluate installation arrangements, and state the grandfathering exemptions provided in 46 CFR 199.10.*

Inspector's Name: (Last, First, Initial)	EMPLID:
Verifying Officer's Signature:	Date:

Lifesaving Equipment Inspection (LS)

D, H, & I Vessels

Task: HI-LS07 Inspect rescue boat

Condition: *During lifesaving equipment inspection*

Standard: *In compliance with applicable policies, laws, regulations and standards*

- References:**
1. Title 46, Code of Federal Regulations Part 31 Tank Vessels - Inspection & Certification
 2. Title 46, Code of Federal Regulations Part 71 Passenger Vessels - Inspection & Certification
 3. Title 46, Code of Federal Regulations Parts 91 & 199
 4. International Convention for the Safety of Life at Sea (SOLAS) 1974, as amended
 5. Lifesaving Appliances including LSA Code, 2017
 6. COMDTINST M16000.7B Marine Safety Manual Volume II Material Inspection Ch-2

Steps		References	Initials
LS07.1	Parent cites	46 CFR 31.36-1 46 CFR 71.25-15 46 CFR 91.25-15	
LS07.2	Verify type approval	46 CFR 199.262 SOLAS 20 III/4 LSA Code 5.1.1.1	
LS07.3	Verify stowage	46 CFR 199.140 SOLAS 20 III/14	
LS07.4	Verify markings	46 CFR 199.176(a) LSA Code 5.1.3.4	
LS07.5	Examine equipment	46 CFR 199.175 LSA Code 5.1.2	
LS07.6	Verify condition	46 CFR 199.190 SOLAS 20 III/20.2	
LS07.7	Verify operation	MSM II/B.1.P	

Verifying Officer Guidance: *Trainee shall demonstrate a working knowledge of the equipment's components, function, type approval and operation. Trainee shall clearly state how to evaluate installation arrangements.*

Inspector's Name: (Last, First, Initial)	EMPLID:
Verifying Officer's Signature:	Date:

Lifesaving Equipment Inspection (LS)

D, H, & I Vessels

Task: HI-LS08 Inspect survival craft davit(s) and appurtenances

Condition: During lifesaving equipment inspection

Standard: In compliance with applicable policies, laws, regulations and standards

- References:**
1. Title 46, Code of Federal Regulations Parts 31, 71 & 91
 2. Title 46, Code of Federal Regulations Part 199 Lifesaving Systems for Certain Inspected Vessels
 3. International Convention for the Safety of Life at Sea (SOLAS) 1974, as amended
 4. NVIC 04-07 Servicing & Maintenance of Lifeboats, Launching Appliances & On-Load Release Gear
 5. COMDTINST M16000.7B Marine Safety Manual Volume II Material Inspection Ch-2
 6. Lifesaving Appliances including LSA Code, 2017

Steps		References	Initials
LS08.1	Parent cites	46 CFR 31.36-1 46 CFR 71.25-15 46 CFR 91.25-15	
LS08.2	Examine condition	46 CFR 199.45(a)(1) & (a)(2), .153, .157 MSM II/B.1.P NVIC 04-07	
LS08.3	Verify operating instructions posted	46 CFR 199.90 SOLAS 20 III/9	
LS08.4	Verify launching and recovery arrangements of survival craft/rescue boat	46 CFR 199.153, .157 & .160 SOLAS 20 III/16 & 17 MSM II/B.1.P	
LS08.5	Verify limit switch operation/open limits	46 CFR 199.153 MSM II/B.1.P LSA Code 6.1.2.7	
LS08.6	Verify launching area lighting	46 CFR 199.150(f)(6) SOLAS 20 III/16	

Verifying Officer Guidance: Trainee shall demonstrate a working knowledge of the equipment's components, function, type approval and operation. Trainee shall clearly state how to evaluate installation arrangements.

Inspector's Name: (Last, First, Initial)	EMPLID:
Verifying Officer's Signature:	Date:

Lifesaving Equipment Inspection (LS)

D, H, & I Vessels

Task: HI-LS09 Witness davit weight test

Condition: During lifesaving equipment inspection

Standard: In compliance with applicable policies, laws, regulations and standards

- References:**
1. Title 46, Code of Federal Regulations Parts 31, 71 & 91
 2. Title 46, Code of Federal Regulations Part 199 Lifesaving Systems for Certain Inspected Vessels
 3. International Convention for the Safety of Life at Sea (SOLAS) 1974, as amended
 4. COMDTINST M16000.7B Marine Safety Manual Volume II Material Inspection Ch-2
 5. NVIC 04-07 Servicing & Maintenance of Lifeboats, Launching Appliances & On-Load Release Gear
 6. Lifesaving Appliances including LSA Code, 2017

Steps		References	Initials
LS09.1	Parent cites	46 CFR 31.36-1 46 CFR 71.25-15 46 CFR 91.25-15	
LS09.2	Verify test weights	46 CFR 199.190(i)(5) SOLAS 20 III/20.11.1.3 MSM II/B.1.P	
LS09.3	Verify dynamic test of winch brake	46 CFR 199.190(i)(2) MSM II/B1.P NVIC 04-07	
LS09.4	Verify operational test of lifeboat and rescue boat release gear	46 CFR 199.190(i)(5) SOLAS 20 III/20.11.2.3 MSM II/B.1.P	
LS09.5	Examine brake pads and stressed structural parts	MSM II/B.1.P NVIC 04-07	
LS09.6	Verify operational test of gravity (or stored mechanical power) launching	46 CFR 199.150(d) SOLAS 20 III/16.1 LSA Code 6.1.1.3	

Verifying Officer Guidance: *Trainee shall demonstrate working knowledge of test procedure requirements, equipment's components, function, & operation; verify wire break strength. It is important to ensure proper safety precautions have been established before tests are conducted.*

Inspector's Name: (Last, First, Initial)	EMPLID:
Verifying Officer's Signature:	Date:

Lifesaving Equipment Inspection (LS)

H Vessels

Task: HI-LS10 Inspect marine evacuation system (MES)

Condition: During lifesaving equipment inspection

Standard: In compliance with applicable policies, laws, regulations and standards

- References:**
1. Title 46, Code of Federal Regulations Part 71 Tank Vessels - Inspection & Certification
 2. Title 46, Code of Federal Regulations Part 199 Lifesaving Systems for Certain Inspected Vessels
 3. International Convention for the Safety of Life at Sea (SOLAS) 1974, as amended

Steps		References	Initials
LS10.1	Parent cites	46 CFR 71.25-15	
LS10.2	Verify type approval	46 CFR 199.201(a)(4) 46 CFR 199.261(a)(5) SOLAS 20 III/4	
LS10.3	Verify quantity	46 CFR 199.201(b)(2) 46 CFR 199.261(c)(2)	
LS10.4	Verify launching arrangement	46 CFR 199.145(a) SOLAS 20 III/16	
LS10.5	Verify markings	46 CFR 199.178 SOLAS 20 III/20.10	
LS10.6	Verify service dates	46 CFR 199.190(g) SOLAS 20 III/20.8.1	
LS10.7	Verify operating instructions are posted	46 CFR 199.90 SOLAS 20 III/9	
LS10.8	Verify crew training in deployment procedures	46 CFR 199.180(d)(9) SOLAS 20 III/19.3.3	
LS10.9	Verify stowage arrangement	46 CFR 199.145(b) SOLAS 20 III/15	
LS10.10	Verify stowage of MES associated liferafts	46 CFR 199.145(c) SOLAS 20 III/13	
LS10.11	Verify rotation deployment dates	46 CFR 199.190(k) SOLAS 20 III/20.8.2	

Verifying Officer Guidance: Trainee shall demonstrate a working knowledge of the equipment's components, function, type approval and operation. Trainee shall clearly state how to evaluate installation arrangements.

Inspector's Name: (Last, First, Initial)	EMPLID:
Verifying Officer's Signature:	Date:

Pollution Prevention Inspection (PP)

D, H, & I Vessels

Task: HI-PP01 Conduct garbage handling survey (MARPOL Annex V)

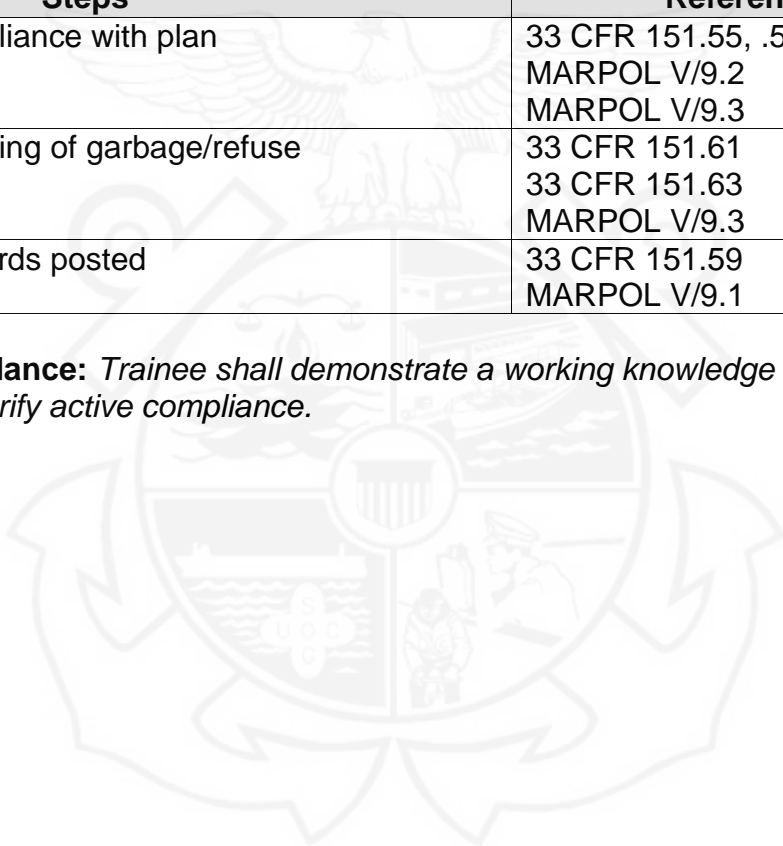
Condition: During pollution prevention inspection

Standard: In compliance with applicable policies, laws, regulations and standards

- References:**
1. Title 33, Code of Federal Regulations Part 151 Vessels Carrying Oil, NLS, Garbage, Municipal or Commercial Waste & Ballast Water
 2. International Convention for the Prevention of Pollution from Ships (MARPOL) 1973, as amended

Steps		References	Initials
PP01.1	Verify compliance with plan	33 CFR 151.55, .57 & .63 MARPOL V/9.2 MARPOL V/9.3	
PP01.2	Verify handling of garbage/refuse	33 CFR 151.61 33 CFR 151.63 MARPOL V/9.3	
PP01.3	Verify placards posted	33 CFR 151.59 MARPOL V/9.1	

Verifying Officer Guidance: Trainee shall demonstrate a working knowledge of the plan's format, purpose and how to verify active compliance.



Inspector's Name: (Last, First, Initial)	EMPLID:
Verifying Officer's Signature:	Date:

Pollution Prevention Inspection (PP)

D, H & I Vessels

Task: HI-PP02 Conduct an international air pollution prevention (MARPOL Annex VI) survey

Condition: During pollution prevention inspection

Standard: In compliance with applicable policies, laws, regulations and standards

- References:**
1. Title 40, Code of Federal Regulations Part 1043 Control of NO_x, SO_x & PM Emissions from Marine Engines & Vessels Subject to the MARPOL Protocol
 2. International Convention for the Prevention of Pollution from Ships (MARPOL) 1973, as amended
 3. CG-543 Policy Letter 09-01 Guideline for Ensuring Compliance with Annex VI to the International Convention for the Prevention of Pollution from Ships (MARPOL) 73/78; Prevention of Air Pollution from Ships
 4. IMO Resolution A.1076(28) Amendments to the Survey Guidelines Under the Harmonized System of Survey and Certification (HSSC), 2011

Steps		References	Initials
PP02.1	Verify equipment/systems containing chlorofluorocarbons (CFCs), hydro CFCs and volatile organic compounds (VOCs) are on certificate	MARPOL VI/12	
PP02.2	Verify presence of equipment on certificate, approvals and equivalencies	MARPOL VI/4 IMO Res A.1076(28)	
PP02.3	Verify compliance with Emission Control Area (ECA)	MARPOL VI/13 & 14 MARPOL VI/App-VII CG-543 Policy Ltr 09-01	
PP02.4	Review exhaust cleaning systems equivalency documentation	MARPOL VI/4	
PP02.5	Review delivery notes	MARPOL VI/18.5 & App V	
PP02.6	Verify samples	MARPOL VI/18.8.1	
PP02.7	Verify compliance with NO _x and SO _x	MARPOL VI/13 & 14 40 CFR 1043.30 CG-543 Policy Ltr 09-01	
PP02.8	Review notification(s) of fuel oil availability and quality	MARPOL VI/18.2.4	

Verifying Officer Guidance: Trainee shall clearly state how to use the information in all certificates, delivery notes and other documentation in order to verify active compliance.

Inspector's Name: (Last, First, Initial)

EMPLID:

Verifying Officer's Signature:

Date:

Topside Equipment Inspection (TE)

D, H, & I Vessels

Task: HI-TE01 Inspect freeing ports and scuppers

Condition: During topside equipment and ground tackle inspection

Standard: In compliance with applicable policies, laws, regulations and standards

- References:**
1. Title 46, Code of Federal Regulations Part 31 Tank Vessels - Inspection & Certification
 2. Title 46, Code of Federal Regulations Part 35 Tank Vessels - Operations
 3. Title 46, Code of Federal Regulations Part 42 Load Lines - Domestic & Foreign Voyages by Sea
 4. Title 46, Code of Federal Regulations Part 71 General Provisions; Certificate of Inspection
 5. Title 46, Code of Federal Regulations Part 72 Passenger Vessels - Construction & Arrangement
 6. Title 46, Code of Federal Regulations Parts 91 & 93

Steps		References	Initials
TE01.1	Parent cites	46 CFR 31.25-1 46 CFR 72.01-5 46 CFR 92.01-5	
TE01.2	Verify no modifications	46 CFR 31.10-25 & 30, 71.55 & 72.30-1 46 CFR 91.45 & 93.01-1 46 CFR 42.15-60 & -70	
TE01.3	Verify unobstructed	46 CFR 35.35-10 46 CFR 42.15-60 & -70	

Verifying Officer Guidance: Trainee shall demonstrate a working knowledge of equipment's components, functions and operation.

Inspector's Name: (Last, First, Initial)	EMPLID:
Verifying Officer's Signature:	Date:

Topside Equipment Inspection (TE)

D, H, & I Vessels

Task: HI-TE02 Inspect ground tackle and related equipment

Condition: *During topside equipment and ground tackle inspection*

Standard: *In compliance with applicable policies, laws, regulations and standards*

- References:**
1. Title 46, Code of Federal Regulations Part 32 Tank Vessels - Special Equipment, Machinery & Hull Requirements
 2. Title 46, Code of Federal Regulations Part 77 Passenger Vessels - Vessel Control & Misc. Systems & Equipment
 3. Title 46, Code of Federal Regulations Part 96 Cargo & Miscellaneous Vessels - Vessel Control & Misc. Systems & Equipment
 4. ABS Rules for Building and Classing Steel Vessels, 1995 Part 3 Hull Construction and Equipment
 5. ABS Rules for Building and Classing Steel Vessels, 1995 Part 7 Survey After Construction

Steps		References	Initials
TE02.1	Examine condition of anchor	46 CFR 32.15-15(b) 46 CFR 77.07-5(a) & 96.07-5(a) ABS 3-5-1 & 7-3-2/1.1.7	
TE02.2	Examine anchor chain	46 CFR 32.15-15(b) 46 CFR 77.07-5(a) 46 CFR 96.07-5(a)	
TE02.3	Examine ground tackle connection points and condition (windlass, capstan, cats paw, etc.)	ABS 7-3-2/1.1.7	
TE02.4	Examine towing/mooring equipment and lines	SOLAS 20 II-1/3-8.2 ABS 3-5-1.15 ABS 3-5-1 Table 2	

Verifying Officer Guidance: *Trainee shall demonstrate a working knowledge of equipment's components, functions and operation.*

Inspector's Name: (Last, First, Initial)	EMPLID:
Verifying Officer's Signature:	Date:

Topside Equipment Inspection (TE)

D, H, & I Vessels

Task: HI-TE03 Inspect air ports, covers and natural vent openings

Condition: *During topside equipment inspection*

Standard: *In compliance with applicable policies, laws, regulations and standards*

- References:**
1. Title 46, Code of Federal Regulations Part 31 Tank Vessels - Inspection & Certification
 2. Title 46, Code of Federal Regulations Part 42 Load Lines - Domestic & Foreign Voyages by Sea
 3. Title 46, Code of Federal Regulations Part 72 Construction and Arrangement
 4. Title 46, Code of Federal Regulations Part 92 Cargo & Miscellaneous Vessels - Construction & Arrangement
 5. International Convention on Load Lines (ICLL) 1966, as amended
 6. COMDTINST M16000.7B Marine Safety Manual Volume II Material Inspection Ch-2

Steps		References	Initials
TE03.1	Parent cites	46 CFR 31.25-1 46 CFR 72.01-5 46 CFR 92.01-5	
TE03.2	Verify covers are readily available and operational	46 CFR 42.15-45 & 65	
TE03.3	Examine condition	46 CFR 42.15	
TE03.4	Inspect covers for proper fit and seal	46 CFR 42.15 ICLL I/23 MSM II/B.1.E.5	

Verifying Officer Guidance: *Trainee shall demonstrate a working knowledge of equipment's components, functions and operation.*

Inspector's Name: (Last, First, Initial)	EMPLID:
Verifying Officer's Signature:	Date:

Topside Equipment Inspection (TE)

D, H, & I Vessels

Task: HI-TE04 Inspect tank vents

Condition: *During topside equipment inspection*

Standard: *In compliance with applicable policies, laws, regulations and standards*

- References:**
1. Title 46, Code of Federal Regulations Part 31 Tank Vessels - Inspection & Certification
 2. Title 46, Code of Federal Regulations Part 56 Piping Systems & Appurtenances
 3. Title 46, Code of Federal Regulations Part 70 Passenger Vessels - General Provisions
 4. Title 46, Code of Federal Regulations Part 90 Cargo & Miscellaneous Vessels - General Provisions

Steps		References	Initials
TE04.1	Parent cites	46 CFR 31.30-1 46 CFR 70.20-1 46 CFR 90.20-1	
TE04.2	Verify condition and location	46 CFR 56.50-85	
TE04.3	Verify installation and condition of flame screens	46 CFR 56.50-85(a)(8)	
TE04.4	Verify permanently attached means for closing tank vents	46 CFR 56.50-85(a)(7)	

Verifying Officer Guidance: *Trainee shall demonstrate a working knowledge of equipment's components, functions and operation.*

Inspector's Name: (Last, First, Initial)	EMPLID:
Verifying Officer's Signature:	Date:

Topside Equipment Inspection (TE)

D, H, & I Vessels

Task: HI-TE05 Inspect rails and guards

Condition: *During topside equipment and ground tackle inspection*

Standard: *In compliance with applicable policies, laws, regulations and standards*

- References:**
1. Title 46, Code of Federal Regulations Part 32 Tank Vessels - Special Equipment, Machinery & Hull Requirements
 2. Title 46, Code of Federal Regulations Part 42 Load Lines - Domestic & Foreign Voyages by Sea
 3. Title 46, Code of Federal Regulations Part 72 Passenger Vessels - Construction & Arrangement
 4. Title 46, Code of Federal Regulations Part 92 Cargo & Miscellaneous Vessels - Construction & Arrangement
 5. International Convention on Load Lines (ICLL) 1966, as amended

Steps		References	Initials
TE05.1	Verify rail heights and courses	46 CFR 32.02-10(a) 46 CFR 72.40-5 & 92.25-5 46 CFR 42.15-75 ICLL I/25	
TE05.2	Verify condition of storm rails	46 CFR 32.02-10(d), 72.40-10 46 CFR 92.25-10 & 42.15-75 ICLL I/25	
TE05.3	Verify guards in dangerous places	46 CFR 32.02-15 46 CFR 72.40-20 46 CFR 92.25-15	
TE05.4	Verify guards for vehicular ferries	46 CFR 72.40-15	

Verifying Officer Guidance: *Trainee shall demonstrate a working knowledge of guard(s) functions and operation.*

Inspector's Name: (Last, First, Initial)	EMPLID:
Verifying Officer's Signature:	Date:

Cargo Systems Inspection (CS)

I Vessels

Task: HI-CS01 Inspect portable tank(s)

Condition: While on deck walk

Standard: In compliance with applicable policies, laws, regulations and standards

- References:**
1. Title 46, Code of Federal Regulations Part 97 Cargo & Miscellaneous Vessels - Operations
 2. Title 46, Code of Federal Regulations Part 98 Special Construction, Arrangement & Other Provisions for Certain Dangerous Cargoes in Bulk
 3. Title 49, Code of Federal Regulations Part 172 Hazardous Materials Regulations - Hazardous Materials Table, Special Provisions, Communications, Emergency Response Information, Training Requirements & Security Plans
 4. Title 49, Code of Federal Regulations Part 173 Shippers—General Requirements for Shipments and Packaging's
 5. Title 49, Code of Federal Regulations Part 176 Carriage by Vessel
 6. International Maritime Dangerous Goods (IMDG) Code, as amended

Steps		References	Initials
CS01.1	Verify tank(s) approved	46 CFR 98.30-4 & .30-5 49 CFR 172.101 Table IMDG Code Vol. I & II	
CS01.2	Verify stowage and segregation	46 CFR 98.30-12 49 CFR 172.326 49 CFR 176.83	
CS01.3	Verify additional fire fighting equipment	46 CFR 98.30-37	
CS01.4	Verify fill and discharge requirement(s) complied with	46 CFR 98.30-23, -25 & -27 46 CFR 98.30-29 46 CFR 98.30-31	
CS01.5	Verify secured in accordance with vessel's cargo securing manual	46 CFR 97.12-10	
CS01.6	Verify warning signals and sign	46 CFR 98.30-33 46 CFR 98.30-35	
CS01.7	Verify materiel condition	46 CFR 98.30-3 & .30-4 49 CFR 173.32 & .241(c) 49 CFR 176.340	

Verifying Officer Guidance: Trainee shall demonstrate a working knowledge of portable tank components, function and DOT type approval.

Inspector's Name: (Last, First, Initial)	EMPLID:
Verifying Officer's Signature:	Date:

Cargo Systems Inspection (CS)**D, H, & I Vessels****Task:** HI-CS02 Inspect packaged hazardous material(s)**Condition:** *While on deck walk***Standard:** *In compliance with applicable policies, laws, regulations and standards*

- References:**
1. Title 49, Code of Federal Regulations Part 172 Hazardous Materials Regulations - Hazardous Materials Table, Special Provisions, Communications, Emergency Response Information, Training Requirements & Security Plans
 2. Title 49, Code of Federal Regulations Part 176 Carriage by Vessel
 3. International Convention for the Safety of Life at Sea (SOLAS) 1974, as amended
 4. International Maritime Dangerous Goods (IMDG) Code, as amended

Steps		References	Initials
CS02.1	Review Dangerous Cargo Manifest	49 CFR 176.30 SOLAS 20 XII/4	
CS02.2	Verify packaging	49 CFR 172.101 Table IMDG Code Vol. I & II	
CS02.3	Verify marked and labeled	49 CFR 172.300 - .338 49 CFR 172.400 - .450 IMDG Code I/5	
CS02.4	Verify placarding	49 CFR 172.500 - .560 IMDG Code I/5	
CS02.5	Verify stowage and segregation	49 CFR 176.57 - .78 49 CFR 176.80 - .84 IMDG Code I/7	

Verifying Officer Guidance: *Trainee shall demonstrate a working ability to utilize tables in regulations.*

Inspector's Name: (Last, First, Initial)

EMPLID:

Verifying Officer's Signature:

Date:

Cargo Systems Inspection (CS)

I Vessels

Task: HI-CS03 Inspect dry-bulk cargo system**Condition:** While on deck walk**Standard:** In compliance with applicable policies, laws, regulations and standards

- References:**
1. Title 46, Code of Federal Regulations Part 42, 91, 97 & 111
 2. NVIC 15-91 & CH-1 Critical Areas Inspection Plans (CAIPs)
 3. International Convention for the Safety of Life at Sea (SOLAS) 1974, as amended
 4. International Maritime Solid Bulk Cargoes (IMSBC) Code
 5. International Code for the Safe Carriage of Grain in Bulk (Grain Code), 1991
 6. IMO MSC/Circ. 1117 Guidelines for Checking the Structure of Bulk Carriers

Steps		References	Initials
CS03.1	Verify compliance with the Enhanced Survey Program or Critical Areas Inspection Plans	SOLAS 20 XII/3 MSM II/B.4 NVIC 15-91 & Ch-1	
CS03.2	Verify survey and maintenance requirements	SOLAS 20 XII/7	
CS03.3	Verify cargo information and solid bulk cargo density declaration	46 CFR 97.12-3 SOLAS 20 VI/2 SOLAS 20 XII/10	
CS03.4	Verify loading manual and loading instrument	SOLAS 20 XII/11	
CS03.5	Verify hold, ballast and dry space water ingress alarms	SOLAS 20 XII/12	
CS03.6	Verify pumping systems	SOLAS 20 XII/13	
CS03.7	Verify load/stowage requirements	SOLAS 20 VI/1-2 SOLAS 20 VI/7 IMSBC Code	
CS03.8	Verify grain load/stowage requirements	SOLAS 20 VI/9 Grain Code	
CS03.9	Verify ventilation	SOLAS 20 II-2/19.3.4	
CS03.10	Verify condition of holds, structural members, and ladders	46 CFR 91.20-15 IMO MSC/Circ. 1117	
CS03.11	Verify watertight closures for ventilators and cargo ports	46 CFR 42.15-45 46 CFR 42.15-55	
CS03.12	Verify electrical equipment and wiring	46 CFR 111.105-7 thru -19	

Verifying Officer Guidance: Trainee shall demonstrate a working knowledge of equipment's components, functions and operation, and identify special hazards associated with bulk carriers.

Inspector's Name: (Last, First, Initial)

EMPLID:

Verifying Officer's Signature:

Date:

Cargo Systems Inspection (CS)

I Vessels

Task: HI-CS04 Inspect break bulk cargo system

Condition: While on deck walk

Standard: In compliance with applicable policies, laws, regulations and standards

- References:**
1. Title 46, Code of Federal Regulations Part 91 Cargo & Miscellaneous Vessels - Inspection & Certification
 2. Title 46, Code of Federal Regulations Part 97 Cargo & Miscellaneous Vessels - Operations
 3. Title 46, Code of Federal Regulations Part 111 Electric Systems General Requirements
 4. International Convention for the Safety of Life at Sea (SOLAS) 1974, as amended
 5. IMO MSC/Circ. 1117 Guidance for Checking the Structure of Bulk Carriers

Steps		References	Initials
CS04.1	Verify survey and maintenance requirements	SOLAS 20 XII/7	
CS04.2	Verify loading manual and loading instrument	SOLAS 20 XII/11	
CS04.3	Verify hold, ballast and dry space water ingress alarms	SOLAS 20 XII/12	
CS04.4	Verify operation of ventilation	SOLAS 20 II-2/19.3.4	
CS04.5	Examine condition of holds, structural members, and ladders	46 CFR 91.20-15 MSC/Circ. 1117	
CS04.6	Verify watertight closures for ventilators and cargo ports	46 CFR 42.15-45 & -55	
CS04.7	Examine electrical equipment and wiring	46 CFR 111.105-7 thru-19	
CS04.8	Verify monitoring for vehicles in enclosed locations	46 CFR 97.80	

Verifying Officer Guidance: Trainee shall demonstrate a working knowledge of equipment's components, functions and operation, and identify special hazards associated with bulk carriers.

Inspector's Name: (Last, First, Initial)	EMPLID:
Verifying Officer's Signature:	Date:

Cargo Systems Inspection (CS)

I Vessels

Task: HI-CS05 Inspect Ro-Ro cargo decks**Condition:** While on deck walk**Standard:** In compliance with applicable policies, laws, regulations and standards

- References:**
1. Title 46, Code of Federal Regulations Part 95 Cargo & Miscellaneous Vessels - Fire Protection Equipment
 2. Title 46, Code of Federal Regulations Part 97 Cargo & Miscellaneous Vessels - Operations
 3. Title 46, Code of Federal Regulations Part 111 Electric Systems General Requirements
 4. International Convention for the Safety of Life at Sea (SOLAS) 1974, as amended

Steps		References	Initials
CS05.1	Verify ramp closure/watertight seal	46 CFR 97.15-17 SOLAS 20 II-1/15-1 SOLAS 20 II-1/17-1	
CS05.2	Verify ventilation functionality and condition	SOLAS 20 II-2/19.3.4	
CS05.3	Examine condition of sprinkler heads	SOLAS 20 II-2/20.6.1.5	
CS05.4	Verify egress	SOLAS 20 II-2/13.6	
CS05.5	Verify air sampling	46 CFR 95.05-1 SOLAS 20 II-2/19.4.2	
CS05.6	Verify ventilation	SOLAS 20 II-2/20.3.1	
CS05.7	Examine electrical equipment and wiring	SOLAS 20 II-2/20.3.2 SOLAS 20 II-2/20.3.3 46 CFR 111.105-39 & -40	
CS05.8	Verify no risk of ignition source	SOLAS 20 II-2/20.3.4	
CS06.9	Verify scuppers and discharges	SOLAS 20 II-2/20.3.5	
CS05.10	Verify operation of fire detection and alarm capabilities	46 CFR 95.05-1 SOLAS 20 II-2/20.4	
CS05.11	Examine structural fire protection	SOLAS 20 II-2/20.5	
CS05.12	Verify fire extinguishing capabilities	SOLAS 20 II-2/20.6	

Verifying Officer Guidance: Trainee shall demonstrate a working knowledge of equipment's components, functions and operation. Additionally, trainee shall verify stowage in accordance with regulatory requirements and the vessel's cargo securing manual.

Inspector's Name: (Last, First, Initial)

EMPLID:

Verifying Officer's Signature:

Date:

Cargo Systems Inspection (CS)

D, H, & I Vessels

Task: HI-CS06 Inspect cargo hatches

Condition: While on deck walk

Standard: In compliance with applicable policies, laws, regulations and standards

- References:**
1. Title 46, Code of Federal Regulations Part 31 Tank Vessels - Inspection & Certification
 2. Title 46, Code of Federal Regulations Part 42 Load Lines - Domestic & Foreign Voyages by Sea
 3. Title 46, Code of Federal Regulations Part 72 Passenger Vessels - Construction & Arrangement
 4. Title 46, Code of Federal Regulations Part 42 Load Lines - Domestic & Foreign Voyages by Sea
 5. COMDTINST M16000.7B Marine Safety Manual Volume II Material Inspection Ch-2

Steps		References	Initials
CS06.1	Verify weathertightness	46 CFR 42.15-20 MSM II/B.1.E.5	
CS06.2	Verify condition of hatch covers	46 CFR 42.15-20 MSM II/B.1.E.5	
CS06.3	Verify condition of coamings	46 CFR 42.15-20 MSM II/B.1.E.5	
CS06.4	Verify condition of dogs/closure devices	46 CFR 42.15-20 MSM II/B.1.E.5	
CS06.5	Examine condition of gaskets	46 CFR 42.15-20 MSM II/B.1.E.5	
CS06.6	Verify opening/closure of hatch covers where machinery is provided	46 CFR 42.15-30 MSM II/B.1.E.5	

Verifying Officer Guidance: Trainee shall demonstrate a working knowledge of equipment's components, functions and operation.

Inspector's Name: (Last, First, Initial)	EMPLID:
Verifying Officer's Signature:	Date:

Cargo Systems Inspection (CS)

D, H, & I Vessels

Task: HI-CS07 Inspect container systems

Condition: While on deck walk

Standard: In compliance with applicable policies, laws, regulations and standards

- References:**
1. Title 46, Code of Federal Regulations Part 91 Cargo & Miscellaneous Vessels - Inspection & Certification
 2. Title 46, Code of Federal Regulations Part 95 Cargo & Miscellaneous Vessels - Fire Protection Equipment
 3. Title 46, Code of Federal Regulations Part 111 Electric Systems General Requirements
 4. Title 49, Code of Federal Regulations Parts 172 & 176
 5. International Convention for the Safety of Life at Sea (SOLAS) 1974, as amended
 6. International Maritime Dangerous Goods (IMDG) Code

Steps		References	Initials
CS07.1	Examine lashings/securing devices	46 CFR 91.25-25 SOLAS 20 VII/5	
CS07.2	Verify stowage/segregation	49 CFR 172.101 49 CFR 176 IMDG Code	
CS07.3	Examine condition of holds, structural members and guide rails	46 CFR 91.20-15	
CS07.4	Verify ventilation	SOLAS 20 II-2/19.3.4	
CS07.5	Examine electrical equipment and wiring	46 CFR 111.105-7 thru -19	
CS07.5	Verify fire detection and alarm capabilities	46 CFR 95.05-1 SOLAS 20 II-2/19.3.3	

Verifying Officer Guidance: Trainee shall demonstrate a working knowledge of equipment's components, functions and operation. Additionally, trainee shall verify stowage in accordance with regulatory requirements and the vessel's cargo securing manual.

Inspector's Name: (Last, First, Initial)	EMPLID:
Verifying Officer's Signature:	Date:

Helo Deck Inspection (HD)

D, H, & I Vessels

Task: HI-HD01 Inspect helicopter deck

Condition: *While on deck walk*

Standard: *In compliance with applicable policies, laws, regulations and standards*

- References:**
1. Title 46, Code of Federal Regulations Part 108 MODU - Design & Equipment
 2. NVIC 09-81 Coast Guard Guidance Regarding Shipboard Helicopter Facilities
 3. International Convention for the Safety of Life at Sea (SOLAS) 1974, as amended

Steps		References	Initials
HD01.1	Parent policy	NVIC 09-81	
HD01.2	Examine landing area	46 CFR 108.235(d)	
HD01.3	Examine safety netting	46 CFR 108.235(e)	
HD01.4	Verify location of access/egress routes	46 CFR 108.235(f) SOLAS 20 II-2/18.4	
HD01.5	Examine fuel storage tanks	46 CFR 108.237(a) SOLAS 20 II-2/18.7.1 - .4	
HD01.6	Examine fuel transfer equipment	46 CFR 108.239(a) SOLAS 20 II-2/18.7.5 - .13	
HD01.7	Verify visual aids	46 CFR 108.241(a) & (b)	

Verifying Officer Guidance: *MODU regs for helicopter facilities are applied to other ships per NVIC 9-81. Trainee shall demonstrate a working knowledge of the helideck requirements, components, function, and operation.*

Inspector's Name: (Last, First, Initial)	EMPLID:
Verifying Officer's Signature:	Date:

Helo Deck Inspection (HD)

D, H, & I Vessels

Task: HI-HD02 Inspect fire fighting system(s) for helicopter deck

Condition: While on deck walk

Standard: In compliance with applicable policies, laws, regulations and standards

- References:**
1. Title 46, Code of Federal Regulations Part 108 MODU - Design & Equipment
 2. NVIC 09-81 Coast Guard Guidance Regarding Shipboard Helicopter Facilities
 3. International Convention for the Safety of Life at Sea (SOLAS) 1974, as amended

Steps		References	Initials
HD02.1	Parent policy	NVIC 09-81	
HD02.2	Verify location(s) of hydrants	46 CFR 108.486	
HD02.3	Verify amount of fire extinguishers	46 CFR 108.489(b) SOLAS 20 II-2/18.5.1.1 & .2	
HD02.4	Verify foam use and foam making capability	46 CFR 108.487(a) & (b) 46 CFR 108.489 SOLAS 20 II-2/18.5.1.3 & .4	
HD02.5	Examine nozzles and hoses	46 CFR 108.487(d) SOLAS 20 II-2/18.5.1.5	
HD02.6	Examine operating controls	46 CFR 108.487(c)	
HD02.7	Examine fire fighting outfits	SOLAS 20 II-2/18.5.1.6	
HD02.8	Verify presence of equipment	SOLAS 20 II-2/18.5.1.7	
HD02.9	Verify location of drainage	SOLAS 20 II-2/18.6	
HD02.10	Verify presence of operation manual	SOLAS 20 II-2/18.8	
HD02.11	Verify annual foam test report(s)	MSM II/B.4	

Verifying Officer Guidance: Trainee shall demonstrate a working knowledge of the equipment's and/or system's components, function, characteristics of the extinguishing agent, type approval and operation.

Inspector's Name: (Last, First, Initial)	EMPLID:
Verifying Officer's Signature:	Date:

**Performance Qualification Standard and Job Aid Change
Recommendation Form**

From: _____ Date: _____

PQS/Job Aid Title:

Section(s) Affected:

Remark(s)/Comment(s):

Reference(s):

Signature: _____

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