

U. S. Coast Guard Sector



Auxiliary Assistant T-Boat Inspector

Performance Qualification Standard

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Auxiliary Assistant T-Boat Examiner Performance Qualification Standard

Qualification Code: AUX-TI

This workbook is your OJT guide towards qualification as a Auxiliary Assistant T-Boat Examiner. It is your responsibility to document completed unit training items. You should also keep track of all examinations completed by filling out the Auxiliary Assistant K-Boat Examination Log located at the end of this workbook.

The AUX-TI qualification is one of several "specific cargo / vessel related" Auxiliary Assistant commercial vessel examiner competencies. Those members who will be required to assist in conducting examinations on T-Boats shall complete this PQS workbook.

On a limited basis, PQS task items may be "deferred" by your unit commander to accurately address the type of vessels / cargo normally examined at your port. If a task is deferred, the reason for deferment must be clearly articulated in the space provided in this PQS workbook. Task items shall only be deferred if the particular task item requires a certain type of vessel, vessel system or cargo type that is not normally examined / encountered at the trainee's port.

- If a PQS task item is deferred, you will not be authorized to examine / perform the function required by the deferred task item.
- You will still receive full AUX-TI qualification even if some items are deferred.
- Domestic Inspection Division Chiefs shall examine tasks of newly reported AUX-TI examiners to identify any deferred task items necessary for their port.
- Auxiliarists are prohibited from entering confined spaces. Under no circumstances shall any Auxiliarist be allowed to do tasks requiring such entry.

A Verifying Officer shall observe your successful performance of each task and document such with date and initials in the appropriate space provided in this booklet. It may be necessary to perform a task several times. The Verifying Officer will not give credit for any task that is not performed satisfactorily.

Verifying Officers shall be experienced and qualified personnel who have demonstrated the ability to evaluate, instruct, and observe other personnel in the performance task criteria. Verifying Officers must be certified in the competencies for which they are to verify and must be command designated. Verifying Officers must enter their title, name, and initials in the Record of Verifying Officers section before making entries in your workbook.

Auxiliarists do not have law enforcement authority. They cannot independently exercise COTP, OCMI, FMSC or FOSC authority and may become personally liable for actions they take outside of prescribed directives. Do not allow an Auxiliarist to be placed in a position that will compromise the limitations on the member's authority.

When you have completed all of the items required for this qualification, your COTP will issue a Letter of Designation. You must forward a copy of your Letter of Designation to your DIRAUX for entry into AUXDATA. Should any item be waived, other than as described above, the qualification is considered local and will not be entered into AUXDATA and may not be used toward qualification for the M-Pro Pin.

This Performance Qualification Standard (PQS) was developed by the Auxiliary Prevention Directorate, thru the Office of Auxiliary and Boating Safety, Commandant (CG-BSX) and approved by Office of Commercial Vessel Compliance, Commandant (CG-CVC-1).

Questions or Comments shall be submitted to the Office of Auxiliary and Boating Safety, Commandant (CG-BSX-12), via the Prevention Directorate, thru the requesting members COLM.

PQS VERIFYING OFFICER SIGNATURE VERIFICATION LOG

RATE/R ANK	SIGNATURE/ PRINT NAME	EMPLID	INITIALS	UNIT
REMARKS	S:			

RECORD OF COMPLETION						
Training Prerequisites	Date	Training Coordinator's Signature				
A. Completion of AUX-TI PQS Workbook.						
B. Completion of all of the below correspondence courses:						
Introduction to Marine Safety & Environmental Protection (IMSEP)						
2. ICS 100						
3. ICS 200						
4. ICS 210						
5. IS 700						
6. IS 800						
C. Favorable DO PSI if required by COTP/OCMI						
D. Completion of this PQS Workbook						
E. Successful completion of verification exam (for Verifying Officer's signature)						
F. Successful completion of oral qualification board.						
PSCOB Members Present for Board:						
G. Designation Letter submitted for approval.						
REMARKS:						

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<u>Task</u> <u>Number</u>	<u>Master AUX-TI Tasks</u>	Completed Date	<u>Defer</u>
CD02	Review vessel documents, papers and decal on a SPV.		
CD04	Discuss scope of inspection with owner's representative.		
CD05	Obtain CG-2692 for reportable marine casualties.		
CD06	Examine gas-free certificate.		
CD08	Review any outstanding CG-835s and ask if other deficiencies exist.		
CD10	Review documentation to ensure FCC compliance per 47 CFR on a SPV/barge		
CD11	Examine station bill and emergency instructions on a SPV.		
CD12	Review Drug and Alcohol Program documentation per 46 CFR 16.		
CD13	Review training, lifesaving maintenance and bridge logbooks on a SPV.		
CD18	Examine annual firefighting and lifesaving equipment certificates on a T-Boat.		
DD01	Ensure that the vessel's entire underwater body is clean for examination.		
DD03	Determine whether structural configuration match plans for an SPV.		
DD05	Examine steel hull for damage and defects.		
DD06	Examine aluminum hull for damage and defects.		
DD07	Examine fiberglass hull for damage and defects.		
DD08	Examine wood hull for damage and defects.		
DD10	Examine draft marks.		
DD12	Demonstrate Knowledge Loadline Requirement for small passenger vessels		
DD13	Examine drydock plugs for local wastage and proper fit.		
DD15	Examine sea chests and overboard discharges on a SPV.		
DD17	Examine propeller for damage on a SPV.		
DD19	Inspect tailshaft(s) and stern bearings on a SPV.		
DD21	Inspect the rudder installation on a SPV.		
DD24	Examine freeing ports and scuppers.		
DD26	Open sea valves for inspection on a SPV.		
DD31	Evaluate repair proposals and inspect completed repairs on a SPV.		
ED02	Observe emergency drills.		
ED04	Review logbook and ensure entries for tests and drills have been made on a SPV.		

<u>Task</u> Number	Master AUX-TI Tasks	Completed Date	<u>Defer</u>
ED05	Review emergency checkoff list and instructions to passengers.		
EE04	Inspect EPIRB.		
EE08	Inspect pyrotechnics.		
ES03	Inspect ship's service generators on a SPV.		
ES06	Inspect battery installation on a T-boat.		
ES09	Inspect lighting systems on a T-boat.		
ES10	Ensure receptacle outlets are properly grounded.		
ES12	Inspect distribution panels on a T-boat.		
ES14	Inspect electrical cable installation on a T-boat.		
ES17	Test/inspect internal communication and control systems on a SPV.		
ES20	Inspect shore power connection.		
FF01	Determine amount, type, location of fire protection equipment required.		
FF04	Inspect CO ₂ systems on a SPV.		
FF07	Inspect Halon/alternative agent systems on a SPV.		
FF09	Inspect portable firefighting equipment.		
FF12	Inspect fire main and fire stations on a T-boat.		
FF14	Witness operational test of fire detection system on a SPV		
FF19	Inspect fire axes.		
FP02	Verify that required forms, placards and notices are posted on a SPV.		
GH02	Inspect berthing accommodations on a SPV.		
GH09	Inspect ladders, railways, and gangways on a SPV.		
GH11	Inspect heating and cooking equipment on a SPV.		
GT02	Examine ground tackle and related equipment on a SPV.		
LS03	Determine lifesaving equipment required on a SPV.		
LS05	Inspect life preservers on a SPV.		
LS07	Inspect ring buoys on a SPV.		
LS17	Inspect lifefloats and buoyant apparatus.		
LS19	Inspect inflatable liferaft installations on a SPV.		
LS20	Inspect rescue boat.		
LS21	Determine if vessel meets criteria for rescue platform in lieu of rescue boat.		
MI02	Examine steering gear on a SPV.		
MI05	Inspect fuel oil service and transfer system on a SPV.		

<u>Task</u> <u>Number</u>	<u>Master AUX-TI Tasks</u>	Completed Date	<u>Defer</u>
MI08	Inspect bilge pumps installation, piping, and valves on a T-boat.		
MI12	Examine potable water system on a T-boat.		
MI14	Observe operational tests of machinery on a SPV.		
MI17	Inspect the diesel installation and assembly on a SPV.		
MI25	Internally examine UPVs requiring internal examination.		
MI26	Externally examine UPVs.		
MI27	Witness Hydrostatic test of UPV.		
MI28	Ensure all UPVs are properly equipped with pressure relief valves.		
MI29	Witness pressure relief valve test.		
MI33	Conduct an examination of an auxiliary/heating boiler.		
MI40	Ensure insulation on steam piping provided to reduce personnel hazard.		
NS02	Ensure radars are operable on a T-boat.		
NS04	Inspect magnetic compass.		
NS05	Inspect magnetic compass on a SPV.		
NS09	Examine radio equipment and FCC or SOLAS documents on a SPV.		
NS11	Inspect navigation lights on a SPV.		
NS15	Inspect navigation publications on a SPV.		
PP05	Ensure that MSD requirements are met.		
PP10	Verify MARPOL V compliance on a SPV and/or barge.		
SD01	Verify that the Vessel Security Plan (VSP) is approved (onboard manned vessels).		
SD02	Verify that a Marine Safety Center (MSC) letter accompanies the approved security plan.		
SD03	Verify that an acknowledgment letter from the Marine Safety Center (MSC) accompanies a security plan that is under review, if applicable.		
SD04	Verify that a copy of an approved Alternate Security Program (ASP) is available for inspection, if applicable.		
SD05	Verify that the ASP includes a letter from the owner or operator certifying which ASP is in use and that the vessel is in compliance with that plan.		
SD06	Verify that the vessel's security assessment report and approved ASP is on site.		
SD07	Determine whether the ASP involves joint facility and vessels.		
SD10	Verify the International Ship Security Certificate (ISSC) was issued within the last 5 years for U.S. SOLAS Vessels.		

<u>Task</u> <u>Number</u>	<u>Master AUX-TI Tasks</u>	Completed <u>Date</u>	<u>Defer</u>
SD11	Examine waiver letter and verify that any conditions expressed in the letter are implemented, if applicable.		
SD12	Examine the waiver approval letter from G-MP for any equivalencies that may exist.		
SD13	Identify whether equivalencies are noted in the amendments to the security plan.		
SD14	For SOLAS vessels, review the vessel's Continuous Synopsis Record (CSR).		
SD17	Verify requirements for international voyages.		
SD54	Assist in Advising the Captain of the Port of findings, if applicable.		
SD55	Observe Issuance of a CG-835 to suspend, restrict, or continue operations, if applicable.		
SD56	Review enforcement decision from Captain of the Port.		
SD57	Observe Advisement of master of enforcement actions.		
SD58	Complete MISLE case documentation.		
ST02	Examine stability letter.		
ST03	Witness a simplified stability test and complete form CG-4006.		
WI02	Inspect watertight doors on a SPV.		
WI05	Inspect watertight bulkhead penetrations on a SPV.		
WI07	Inspect hull and deck openings on a SPV.		
WI08	Inspect port light covers.		
WI10	Evaluate steel or aluminum hulls and all accessible spaces for damage.		
WI11	Evaluate FRP hulls and all accessible spaces for damage.		
WI12	Evaluate wood hulls and all accessible spaces for damage.		
WI13	Conduct a simplified subdivision calculation; complete form CG-4005.		
WR06	Complete steps to approve Weld Procedure Specification (WPS) for engineering and cargo system construction or repair IAW Subchapter F of the Code of Federal Regulations.		
WR07	Complete steps to approve Weld Performance Qualifications (WPQ) for engineering and cargo system construction or repair IAW Subchapter F of the Code of Federal Regulations.		
WR08	Review approved Weld Procedure Specification (WPS) for engineering and cargo system construction or repair.		
WR09	Review approved Welder Performance Qualification (WPQ) for engineering and cargo system construction or		

<u>Task</u> <u>Number</u>	<u>Master AUX-TI Tasks</u>	Completed Date	<u>Defer</u>
	repair.		
WR10	Determine suitability of hull construction and repair welding procedures.		
WR11	Determine suitability of hull welders.		
WR12	Demonstrate a working knowledge of acceptable standards of workmanship for construction and repair of Small Passenger Vessels.		

<u>Task</u> <u>Number</u>	<u>Task</u>	<u>Date</u> Completed	<u>Verifying</u> <u>Officer</u>	<u>Comp</u>	<u>Defer</u>	Comments about <u>Deferment</u>
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CD02	Review vessel documents listed in MISLE, papers and decal on a small passenger vessel.					
CD04	Discuss scope of inspection with owner's representative. Decide on general sequence of inspection.					
CD05	Obtain CG-2692 for reportable marine casualties/ structural failure report.					
CD06	 Examine gas-free certificate issued by an NFPA-certified marine chemist for hot work and/or confined space entry. Information on the gas-free certificate meet the requirements of NFPA Standard 306 and Coast Guard confined space entry/benzene exposure policy Gas-free certificate been maintained by a designated competent person and records kept as required by OSHA regulations Marine chemist certified by NFPA Review benzene and confined space entry policies OSHA Competent Person log up to date 					

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	Meters used by OSHA Competent Person are calibrated					
CD08	Review any MSIS inspection notes and outstanding deficiencies (CG-835s). Ask owner's representative if any other deficiencies exist.					
CD10	Review documentation to ensure FCC compliance per 47 CFR on a SPV/barge: FCC Station License FCC Safety Certificate FCC Operations Permit FCC Marine Radio Operator Permit					
CD11	Examine station bill and emergency instructions SPV.					
CD12	Review Drug and Alcohol Program documentation per 46 CFR 16: • Employee Assistance Program • Annual Program Audits • Records • Types of chemical testing conducted	<u></u>				
CD13	Review training, lifesaving maintenance and bridge logbooks on a SPV.					

<u>Task</u> <u>Number</u>	<u>Task</u>	<u>Date</u> <u>Completed</u>	<u>Verifying</u> <u>Officer</u>	<u>Comp</u>	<u>Defer</u>	<u>Comments about</u> <u>Deferment</u>
CD18	Examine annual firefighting and lifesaving equipment certificates on a T-Boat.					
DD01	Ensure that the vessel's entire underwater body is clean and exposed for examination (areas in way of blocking excluded).					
DD03	Determine whether structural configurations match approved plans for a small passenger vessel.					
DD05	Examine steel hull for damage and defects.					
DD06	Examine aluminum hull for damage and defects.					
DD07	Examine fiberglass hull for damage and defects.					
DD08	Examine wood hull for damage and defects.					

<u>Task</u> <u>Number</u>	<u>Task</u>	<u>Date</u> <u>Completed</u>	<u>Verifying</u> <u>Officer</u>	<u>Comp</u>	<u>Defer</u>	<u>Comments about</u> <u>Deferment</u>
DD10	Examine draft marks (placement of marks consistent with stability letter and properly scribed).					
DD12	Demonstrate Knowledge Loadline Requirement for small passenger vessels.				0	
DD13	Examine drydock plugs for local wastage and fit.					
DD15	Examine sea chests and overboard discharges on a small passenger vessel.					
DD17	Examine propeller for damage on a small passenger vessel.					
DD19	Inspect tailshaft(s) and stern bearings on a small passenger vessel.					

<u>Task</u> <u>Number</u>	<u>Task</u>	<u>Date</u> Completed	<u>Verifying</u> <u>Officer</u>	<u>Comp</u>	<u>Defer</u>	Comments about Deferment
DD21	 Examine visible portions of shaft Determine bearing weardown Inspect the rudder installation on a small passenger vessel. Examine rudder post, rudder stock for deterioration and fractures Examine rudder carrier for deterioration and fractures 					
DD24	Examine freeing ports and scuppers.					
DD26	 Open sea valves for inspection on a small passenger vessel. Stem, gate, and guides in good condition Disassemble valves and examine condition of valve bodies, fastenings, packing glands, and spool pieces 					
DD31	 Evaluate repair proposals and inspect completed repairs on a small passenger vessel. Sketch and bill of materials Materials and welding details same as original Inserts properly made Fit up and joint preparation 					

<u>Task</u> <u>Number</u>	<u>Task</u>	<u>Date</u> <u>Completed</u>	<u>Verifying</u> <u>Officer</u>	<u>Comp</u>	<u>Defer</u>	Comments about <u>Deferment</u>
ED02	 Back gouging Weld sequencing Visual inspection of completed repair Pressure test repairs (hose, air, hydro) Observe emergency drills. Maximum participation by crew accomplished During fire drills, fire pump(s) started and fire hose(s) lead out All alarm bells function properly Escapes are clear and unobstructed Crew competent to handle emergency situations 					
ED04	Review logbook and ensure entries for tests and drills have been made on a SPV.					
ED05	Review emergency checkoff list and instructions to passengers.					
EE04	 Inspect EPIRB. Right type Operative Stowed properly Tested as frequently and in manner required by regulations 					

<u>Task</u> <u>Number</u>	<u>Task</u>	<u>Date</u> <u>Completed</u>	<u>Verifying</u> <u>Officer</u>	<u>Comp</u>	<u>Defer</u>	<u>Comments about</u> <u>Deferment</u>
EE08	 Battery still within date Inspect pyrotechnics. Proper type equipment provided for vessel being inspected Equipment provided within time limits for service life Equipment properly stowed Persons in charge of lifeboats knowledgeable in use of equipment 					
ES03	 Inspect ship's service generators on a small passenger vessel. Generator size and arrangement adequate Operational tests satisfactory Guards installed around rotating or live machinery Discoloration from overheating apparent Filters on air intakes working to keep internals free from dust and dirt Windings oily or dirty Odd bearing noises present Nameplates properly in place 					
ES06	 Inspect battery installation on a T-boat. Battery box is properly lined Batteries are secure in the trays 					

<u>Task</u> <u>Number</u>	<u>Task</u>	<u>Date</u> <u>Completed</u>	<u>Verifying</u> <u>Officer</u>	<u>Comp</u>	<u>Defer</u>	<u>Comments about</u> <u>Deferment</u>
ES09	 Adequate space provided over the cells A means of charging is provided Inspect lighting systems on a T-boat. Portable lights Emergency lights Navigation lights General lighting 					
ES10	Ensure receptacle outlets have grounding poles and are properly grounded.					
ES12	 Inspect distribution panels on a T-boat. Amperage ratings of the protective devices in accordance with regulations Panelboard blanks installed, where necessary 					
ES14	 Inspect electrical cable installation on a T-boat. Vertical and horizontal supports properly spaced Radius of the bends exceed CFR specifications Portable cables used for unauthorized purposes Acceptable materials used Hazardous conditions exist (jury rigs, dead end cables, splices, etc.) 					

<u>Task</u> <u>Number</u>	<u>Task</u>	<u>Date</u> <u>Completed</u>	<u>Verifying</u> <u>Officer</u>	<u>Comp</u>	<u>Defer</u>	<u>Comments about</u> <u>Deferment</u>
ES17	Test internal communication and control systems on a small passenger vessel and ensure the public address system works properly.					
ES20	 Inspect shore power connection on a small passenger vessel. Means to disconnect Watertight construction 					
FF01	Determine amount, type and location of fire protection equipment required. By the vessel's Certificate of Inspection By the respective regulations					
FF04	 Inspect fixed CO2 systems on a small passenger vessel. Obtain servicing reports Bottles underweight Flexible loops serviced and tested Diffuser heads clear Hydrostatic test required by regulations Pre-engineered systems comply with 46 CFR 181.420 Instructions posted 					
FF07	Inspect Halon/'alternative agent systems on a small passenger vessel.					

<u>Task</u> Number	<u>Task</u>	<u>Date</u> <u>Completed</u>	<u>Verifying</u> <u>Officer</u>	<u>Comp</u>	<u>Defer</u>	<u>Comments about</u> <u>Deferment</u>
	 Coast Guard approved Markings and notices correct and properly posted Controls functioning Closure for protected spaces provided Quantity sufficient Vent and engine shutdowns functioning 					
FF09	 Inspect portable firefighting equipment. Fire extinguishers approved Each unit serviceable Adequate spare charges provided Correct type and amount on hand Distributed per fire control plan Markings correct Servicing properly logged 					
FF12	 Inspect fire main and fire stations on a T-boat. Correct number of fire pump(s) provided Fire hoses meet acceptable standards Requirements for hose length and size complied with Fire pump(s) capable of providing adequate pressure Valves at fire stations operable Acceptable nozzle provided Markings correct 					

<u>Task</u> Number	<u>Task</u>	<u>Date</u> <u>Completed</u>	<u>Verifying</u> <u>Officer</u>	<u>Comp</u>	<u>Defer</u>	<u>Comments about</u> <u>Deferment</u>
FF14	 Witness operational test of fire detection system on a SPV System serviceable All sensors free of obstructions and functioning Alarms and indicators functioning correctly Required instructions and diagrams provided Markings correct 					
FF19	Inspect fire axes.Correct number providedMarked properlyDistributed adequately					
FP02	Verify that the required forms, placards, and notices are posted on a small passenger vessel. • Pollution/MARPOL: • Placard • Waste management plan • Coast Guard forms: • CG-841: Certificate of Inspection • CG-3372: Oil Pollution • Passenger notices • SOLAS certificates • Markings: conspicuous and legible					
GH02	Inspect berthing accommodations on a small passenger vessel.					

<u>Task</u> <u>Number</u>	<u>Task</u>	<u>Date</u> <u>Completed</u>	<u>Verifying</u> <u>Officer</u>	<u>Comp</u>	<u>Defer</u>	<u>Comments about</u> <u>Deferment</u>
GH09	 Space for passengers Toilet facilities Bunk arrangements Means of escape Separation from machinery and fuel tank spaces Ventilation Emergency egress Each bunk counts as one seat in passenger count determination Inspect ladders, rails and gangways on a small passenger vessel. Efficient" rails provided on decks and bridges of proper height and configuration Storm rails provided where persons 					
GH11	would have normal access Inspect heating and cooking equipment on a small passenger vessel. Electrical installations are per approved plan review Electrical loads are within overcurrent protection specs i.e. no breakers open when all equipment is turned on.					
GT02	Verify that ground tackle and related equipment is in satisfactory condition on a small passenger vessel. • Anchors					

<u>Task</u> <u>Number</u>	<u>Task</u>	<u>Date</u> <u>Completed</u>	<u>Verifying</u> <u>Officer</u>	<u>Comp</u>	<u>Defer</u>	Comments about <u>Deferment</u>
LS03	 Chain or line Determine amount and type of lifesaving equipment required on a small passenger vessel. Certificate of Inspection CFRs 					
LS05	 Inspect life preservers on a SPV. Properly equipped with lights, whistles and reflective tape Approved for intended service Sufficient serviceable units aboard and properly stowed Properly marked 					
LS07	 Inspect ring buoys on a SPV. Approved for intended service Properly colored and marked Correctly equipped with waterlights and line Serviceable Sufficient number of ring buoys aboard 					
LS17	 Inspect lifefloats and buoyant apparatus. Stowed in accordance with applicable regulations, using proper method of securing and float free link Water lights and reflective tape are installed as required Body of unit in good condition, life 					

<u>Task</u> Number	<u>Task</u>	<u>Date</u> <u>Completed</u>	<u>Verifying</u> <u>Officer</u>	<u>Comp</u>	<u>Defer</u>	Comments about <u>Deferment</u>
LS19	ropes and netting in serviceable condition Marked in accordance with applicable regulations Required equipment provided Inspect inflatable liferaft installations on a SPV. Serviced annually Last servicing date at approved facility Properly secured in the cradle designed for them Hydrostatic releases serviced Operating instructions posted at embarkation station					
LS20	 Inspect rescue boat. Maintained in serviceable condition Stowed in proper location as indicated on safety equipment plan. Can be readily launched either by hand or by davit Rescue boat is on "approved" list Release mechanism is in service and in good condition Required equipment in boat 					
LS21	Determine if vessel meets criteria for use of rescue platforms in lieu of a rescue boat.					

<u>Task</u> <u>Number</u>	<u>Task</u>	<u>Date</u> <u>Completed</u>	<u>Verifying</u> <u>Officer</u>	<u>Comp</u>	<u>Defer</u>	<u>Comments about</u> <u>Deferment</u>
MI02	 Examine steering gear on a small passenger vessel. Operational tests Hydraulic leaks Cable condition Leakage through rudder post Provision for emergency steering provided unless vessel can demonstrate steering and mooring activity by engines alone (twin screw) 					
MI05	 Inspect fuel oil service and transfer system on a small passenger vessel. Determine condition of piping and manifolds Ensure no excessive fuel oil leakage exists Test remote operated fuel oil system valves Determine condition of fuel oil tank vent lines and flame screens 					
MI08	 Inspect bilge pumps installation, piping, and valves on a T-boat. System capable of pumping from any watertight compartment Standing water drain to suction pipes Bilge manifold has independent bilge suction control and is properly marked Suction strainers are installed 					

<u>Task</u> Number	<u>Task</u>	<u>Date</u> <u>Completed</u>	<u>Verifying</u> <u>Officer</u>	<u>Comp</u>	<u>Defer</u>	<u>Comments about</u> <u>Deferment</u>
MI12	 Examine potable water system on a T-boat. Dedicated tanks; treated or coated Tanks ventilated with insect screens installed Water pump(s) and pressurization system operable 					
MI14	 Pressure tank installation Determine what prime mover operational tests are required; witness tests and state if results are satisfactory on a small passenger vessel. Low lube oil shutdowns and alarms High coolant temperature alarm 					
MI17	Inspect the diesel installation and assembly on a SPV, paying particular attention to the following: • Fuel and lube oil fittings (checking for leakage) • Instrumentation • Guards over rotating machinery • Exhaust system: • Leaks • Lagging • Water cooling system • Starting system • Air intakes					
MI25	Internally examine unfired pressure vessels requiring internal examination.					

<u>Task</u> <u>Number</u>	<u>Task</u>	<u>Date</u> <u>Completed</u>	<u>Verifying</u> <u>Officer</u>	<u>Comp</u>	<u>Defer</u>	<u>Comments about</u> <u>Deferment</u>
MI26	 Check for corrosion, scale, pitting, cracks and erosion Examine welded connections internally Externally examine unfired pressure vessels. Pressure gauge Evidence of structural damage Data plate legible Foundations structurally sound Attachments secure 					
MI27	 Witness Hydrostatic test of unfired pressure vessel. Determine when hydrostatic test required Determine MAWP Observe pressure test 					
MI28	Ensure all unfired pressure vessels are properly equipped with pressure relief valves.					
MI29	 Witness pressure relief valve test. MAWP not exceeded Valve seats tightly Spring set within range Correct valve type Hand lifting device 					

<u>Task</u> <u>Number</u>	<u>Task</u>	<u>Date</u> <u>Completed</u>	<u>Verifying</u> <u>Officer</u>	<u>Comp</u>	<u>Defer</u>	<u>Comments about</u> <u>Deferment</u>
MI33	Conduct an examination of an auxiliary/heating boiler. Furnace (distortion) Combustion chamber (crown sheet, wrapper sheet, back sheets (distortion) Boiler shell and heads Stay bolts Boiler saddles and foundations Plating in way of mountings (wastage due to leaking valves and fittings) Cracks in the plating due to flexing of the heads or leakage Wastage around manhole gaskets Note heat number and condition of fusible plugs Waterside tubes (Pitting - determine general depth and tube type) Waterside internal surface conditions (scaling, pitting, corrosion, erosion) Mountings opened/removed Safety valve operation Witness hydrostatic test					
MI40	Ensure insulation is provided to reduce personnel hazard.					
NS02	 Ensure radars are operable on a T-boat. Correct number and type of radars aboard Crewmembers are knowledgeable in 					

<u>Task</u> <u>Number</u>	<u>Task</u>	<u>Date</u> <u>Completed</u>	<u>Verifying</u> <u>Officer</u>	<u>Comp</u>	<u>Defer</u>	<u>Comments about</u> <u>Deferment</u>
NS04	operation of equipment Inspect magnetic compass. • Valid deviation table, if applicable					
	 Check for structural changes & installation of new electrical equipment that could affect the compass. Proper illumination, if applicable Visible from helm position Liquid level sufficient 					
NS05	 Inspect magnetic compass on a SPV. Proper illumination, if applicable Visible from helm position Liquid level sufficient 					
NS09	 Examine radio equipment and FCC or SOLAS documents on a SPV. Ensure equipment is operable – conduct radio check Ensure FCC/SOLAS documents are aboard and valid 					
NS11	 Inspect navigation, signal lights and day shapes on a small passenger vessel. Lights properly functioning Correctly placed in accordance with applicable regulations Proper lights installed for vessel's length, use & propulsion Lights properly positioned to show 					

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	 correct arcs of visibility All lights are operable and showing proper intensities/colors Proper number of ball, cone, diamond day shapes onboard If dive vessel, ALPHA flag onboard (rigid) Adequate bridge visibility 					
NS15	 Inspect navigation publications and charts on a small passenger vessel. Charts cover area of operation and are of appropriate scale Coast Pilot, Light List, Tide Tables, Tidal Current Tables or excerpts Currently correctly/current editions Rules of the Road (> 12 meters) Vessel has up-to-date notice to mariners 					
PP05	 Insure that MSD requirements are met, if installed. Proper type installed Device approved for use aboard inspected vessels Adequate capacity System is piped and wired in accordance with Subchapters F and J Manufacturer's instructions available Required instructions and warning placard posted 					

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PP10	Verify MARPOL V compliance on a small passenger vessel and/or barge. Check waste management plan Plastics retained or incinerated Placards posted					
SD01	Verify that the Vessel Security Plan (VSP) is approved (onboard manned vessels).					
SD02	Verify that a Marine Safety Center (MSC) letter accompanies the approved security plan.					
SD03	Verify that an acknowledgment letter from the Marine Safety Center (MSC) accompanies a security plan that is under review, if applicable.					
SD04	Verify that a copy of an approved Alternate Security Program (ASP) is available for inspection, if applicable.					
SD05	Verify that the ASP includes a letter from the owner or operator certifying which ASP is in use and that the vessel is in compliance with that plan.					

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SD06	Verify that the vessel's security assessment report and approved ASP is on site.					
SD07	Determine whether the ASP involves joint facility and vessels.					
SD10	Verify the International Ship Security Certificate (ISSC) was issued within the last 5 years for U.S. SOLAS Vessels.					
SD11	Examine waiver letter and verify that any conditions expressed in the letter are implemented, if applicable.					
SD12	Examine the waiver approval letter from G-MP for any equivalencies that may exist.					
SD13	Identify whether equivalencies are noted in the amendments to the security plan.					
SD14	For SOLAS vessels, review the vessel's					

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	Continuous Synopsis Record (CSR).					
SD17	Verify requirements for international voyages.					
SD54	Observe Advisement of the Captain of the Port of findings, if applicable.					
SD55	Observe Issuance of a CG-835 to suspend, restrict, or continue operations, if applicable.					
SD56	Review enforcement decision from COTP.					
SD57	Observe Advisement of master of enforcement actions.					
SD58	Complete MISLE case documentation.					

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ST02	Examine stability letter.				0	
ST03	Witness a simplified stability test and complete form CG-4006.					

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WI02	 Inspect watertight doors on a SPV. Knife edges intact and in good repair; no excessive paint buildup Gasket material installed in channel is in good condition and not painted Knife edges and channel meet as designed when door closed Hinges and hinge bolts in good condition; no sagging of door due to rounded out hinges or worn hinge bolts Dogs are all operable; grease fittings still usable Dogging wedges not excessively worn and fit up satisfactory Quick-closing gear operable and adequate closure achieved Any port lights installed in watertight doors use wire mesh reinforced glass Dogging wrench provided in vicinity of watertight door(s) 					
WI05	 Inspect watertight bulkhead penetrations on a small passenger vessel. Penetrations properly sealed to maintain watertight integrity through use of devices such as stuffing tubes 					
WI07	 Inspect hull and deck openings on a small passenger vessel. Dogs, gaskets and knife edges are maintained as previously described for 					

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WI08	watertight doors, on any hull or deck openings Inspect port light covers. Port lights at the main deck level have a cover installed Dogs free on each shutter Shutters restricted in their movement from stowed-to-closed position					
WI10	 Evaluate steel or aluminum hulls and all accessible spaces for damage. Wastage Fractures Upsets of shell plate Deformed framing or stiffeners Evaluate proposed repairs Unauthorized/improper repairs or modifications 					
WI11	Evaluate fiberglass hulls and all accessible spaces for damage. • Loose or wasted fasteners • Mechanical damage • Blistering • Delaminations • Evaluate proposed repairs • Unauthorized/improper repairs or modifications					

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WI12	Evaluate wood hulls and all accessible spaces for damage. • Loose or wasted fasteners/keel boats • Mechanical damage • Marine borer damage • Loose caulking/sprung planks • Evaluate proposed repairs • Rot/lack of ventilation in closed spaces • Unauthorized/improper repairs or modifications					
WI13	Conduct a simplified subdivision calculation and complete form CG-4005.					
WR06	Complete steps to approve Weld Procedure Specification (WPS) for engineering and cargo system construction or repair IAW Subchapter F of the Code of Federal Regulations. • Witness WPS test coupon fit for welding • Review coupon test results • Draft WPS approval					
WR07	Complete steps to approve Welder Performance Qualification (WPQ) for engineering and cargo system construction or repair IAW Subchapter F of the Code of Federal Regulations.					

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WR08	 Witness WPS test coupon fit for welding Review coupon test results Draft WPS approval Review approved Weld Procedure Specification (WPS) for engineering and cargo system construction or repair. Determine suitability of WPS for application Determine suitability of third party WPS acceptance 					
WR09	 Review approved Welder Performance Qualification (WPQ) for engineering and cargo system construction or repair. Determine suitability of WPS for application Determine suitability of third party WPS acceptance 					
WR10	 Determine suitability of hull construction and repair welding procedures. Review class approvals for classed vessels Determine acceptability of hull welders for unclassed vessels 					

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WR11	Determine suitability of hull construction and repair welders. • Review class welder approvals for classed vessels • Determine acceptability of hull welders for unclassed vessels					
WR12	 Demonstrate a working knowledge of acceptable standards of workmanship for construction and repair of Small Passenger Vessels. Explain why Subchapter T and K are not mentioned in 46 CFR 2.75-70 Demonstrate knowledge of acceptable standards or good marine practice 					

DATE	LOCATION	VESSEL NAME	VESSEL CLASS	INSPECTION TYPE	LEAD INSPECTOR

NOTES

SAMPLE LETTER OF DESIGNATION

U.S. Department of Homeland Security
United States
Coast Guard

Command's Name

Street Address City, State Zip Code Staff Symbol: Phone: Email:

1601 DATE

MEMORANDUM

From: I. M. Frank, CAPT

Unit's Name

Reply to Attn of:

To: M. O. Ore, USCG Auxiliary

Subj: DESIGNATION AS AUXILIARY ASSISTANT T-BOAT EXAMINER

Ref: Auxiliary Assistant T-Boat Examiner Performance Qualification Standard Workbook

- 1. Congratulations! You have completed all requirements necessary to perform the duties of an Auxiliary Assistant T-Boat Examiner. You are authorized to carry out the responsibilities of an Auxiliary Assistant T-Boat Examiner within the scope of your qualifications. This is a significant milestone in your professional development and I commend your accomplishments.
- 2. This Letter of Designation should be retained as part of your personal Training Record and you will be assigned the Auxiliary Assistant T-Boat Examiner's Qualification Code "AUX-TI".