

Assessment Guidelines for Able Seafarer-Deck

Standard of Competence

As is specified in 46 Code of Federal Regulations (CFR) 12.603(a)(4), every candidate for certification as Able Seafarer-Deck (AS-D) shall provide evidence of having achieved the required standard of competence as specified in Table A-II/5 of the STCW Code. The table below is adopted from Table A-II/5 of the STCW Code (found in Enclosure (4)) to assist the candidate and assessor in the demonstration of competency.

Practical Skill Demonstrations

These assessment guidelines establish the conditions under which the assessment will occur, the performance or behavior the candidate is to demonstrate, and the standards against which the performance is measured.

Qualified Assessors

A shipboard Qualified Assessor (QA) who witnesses a practical demonstration may sign the appropriate blocks and pages in the Record of Assessment in Enclosure (3) or an equivalent record. All assessments must be signed by a QA approved by the Coast Guard in accordance with 46 CFR 10.405. In order to facilitate the transition to this new requirement, the Coast Guard will accept assessments that have been demonstrated in the presence of and signed by an assessor who has not been Coast Guard approved until December 31, 2016, provided that the assessor meets the professional requirements in 46 CFR 10.405(a)(3) to assess competence for the specific endorsement. Assessors must be in possession of the level of endorsement, or other professional credential, which provides proof that he or she has attained a level of experience and qualification equal or superior to the relevant level of knowledge, skills, and abilities to be assessed (46 CFR 10.405(a)(3)). In the interim, the Coast Guard will accept assessments signed by mariners who hold an appropriate national endorsement and have at least 1 year of experience as the officer in charge of a navigational watch on vessels greater than 200 GRT or 500 GT. After December 31, 2016, QAs must be approved by the National Maritime Center to conduct the assessment (46 CFR 10.405).

Notes

The following notes are referred to in the “Task No.” column of the assessment table that follows:

- RFPNW* The assessments are met by holding or qualifying for an STCW endorsement as Rating Forming Part of a Navigational Watch (RFPNW).
- Course* The assessment may only be satisfied by successful completion of a Coast Guard approved or accepted course.

Successful completion of these Assessment Guidelines will provide satisfactory evidence of meeting the standard of competence specified in Section A-II/5 of the STCW Code. The use of these Assessment Guidelines is not mandatory and alternative means of having achieved the standards of competence in the STCW Code will be considered. In accordance with 46 CFR 12.601(b)(1)(i), alternative Assessment Guidelines must be approved by the National Maritime Center before use.

Assessment Guidelines for Able Seafarer-Deck

Task No.	STCW Competence	Knowledge, Understanding, and Proficiency	Performance Condition	Performance Behavior	Performance Standard
1.1.A <i>RFPNW</i>	Contribute to a safe navigational watch	Ability to understand orders and to communicate with the officer of the watch in matters relevant to watch keeping duties	This KUP is satisfied if the mariner holds or has qualified for an endorsement as RFPNW.		
1.2.A <i>RFPNW</i>	Contribute to a safe navigational watch	Procedures for the relief, maintenance, and handover of a watch	This KUP is satisfied if the mariner holds or has qualified for an endorsement as RFPNW.		
1.3.A <i>RFPNW</i>	Contribute to a safe navigational watch	Information required to maintain a safe watch	This KUP is satisfied if the mariner holds or has qualified for an endorsement as RFPNW.		
2.1.A	Contribute to berthing, anchoring and other mooring operations	Working knowledge of the mooring system and related procedures including the function of mooring and tug lines and how each line functions as part of an overall system	On board ship or in a laboratory, when questioned by a Qualified Assessor,	the candidate describes the functions of the mooring and tug lines.	The candidate's description includes established safety practices and equipment operating instructions applicable to the following lines and how these lines function as part of an overall system: 1. Spring lines; 2. Breast lines; and 3. Head and stern line.

Successful completion of these Assessment Guidelines will provide satisfactory evidence of meeting the standard of competence specified in Section A-II/5 of the STCW Code. The use of these Assessment Guidelines is not mandatory and alternative means of having achieved the standards of competence in the STCW Code will be considered. In accordance with 46 CFR 12.601(b)(1)(i), alternative Assessment Guidelines must be approved by the National Maritime Center before use.

Task No.	STCW Competence	Knowledge, Understanding, and Proficiency	Performance Condition	Performance Behavior	Performance Standard
2.1.B	Contribute to berthing, anchoring and other mooring operations	Working knowledge of the mooring system and related procedures, including the function of mooring and tug lines and how each line functions as part of an overall system	On board ship or in a laboratory, when questioned by a Qualified Assessor,	the candidate describes the characteristics of mooring equipment.	The candidate's description includes the safe practices involving mooring wires, synthetic, and fiber lines, winches, anchor windlasses, capstans, bitts, chocks, and bollards.
2.2.A	Contribute to berthing, anchoring and other mooring operations	Working knowledge of the mooring system and related procedures, including the capacities, safe working loads, and breaking strengths of mooring equipment, including mooring wires, synthetic and fiber lines, winches, anchor windlasses, capstans, bitts, chocks, and bollards	On board ship or in a laboratory, when questioned by a Qualified Assessor,	the candidate describes characteristics of various lines including wire ropes.	The candidate's description includes: <ol style="list-style-type: none"> 1. Nature of various lines including: <ol style="list-style-type: none"> a. Natural fiber lines; b. Nylon line; c. Polypropylene line; and d. Wire lines; 2. Combining wire and synthetic lines should only be done by using a thimble; 3. Braided vs. laid line; and 4. Need for and placement of chafing gear.

Successful completion of these Assessment Guidelines will provide satisfactory evidence of meeting the standard of competence specified in Section A-II/5 of the STCW Code. The use of these Assessment Guidelines is not mandatory and alternative means of having achieved the standards of competence in the STCW Code will be considered. In accordance with 46 CFR 12.601(b)(1)(i), alternative Assessment Guidelines must be approved by the National Maritime Center before use.

Task No.	STCW Competence	Knowledge, Understanding, and Proficiency	Performance Condition	Performance Behavior	Performance Standard
2.2.B	Contribute to berthing, anchoring and other mooring operations	Working knowledge of the mooring system and related procedures, including the capacities, safe working loads, and breaking strengths of mooring equipment, including mooring wires, synthetic and fiber lines, winches, anchor windlasses, capstans, bits, chocks, and bollards	On board a ship, when questioned by a Qualified Assessor,	the candidate describes various anchoring operations.	<p>The candidate's description includes:</p> <ol style="list-style-type: none"> 1. Preparing for letting go anchor; 2. Backing out the anchor with the anchor windlass engaged; 3. Taking the anchor windlass out of gear with the anchor windlass brake engaged; 4. Letting go the anchor; 5. Paying out the anchor chain as directed, but under control; 6. Heaving anchor; 7. Cleaning anchor chain and anchor as it is brought aboard; and 8. Securing the anchor for sea.
2.2.C	Contribute to berthing, anchoring and other mooring operations	Working knowledge of the mooring system and related procedures, including the capacities, safe working loads, and breaking strengths of mooring equipment, including mooring wires, synthetic and fiber lines, winches, anchor windlasses, capstans, bits, chocks, and bollards	On board a ship, when questioned by a Qualified Assessor,	the candidate describes the characteristics and function of deck fittings.	<p>The candidate's description includes the use of fittings on deck including:</p> <ol style="list-style-type: none"> 1. Bits: <ol style="list-style-type: none"> a. Single bitt; b. H-bitt; and c. Cruciform bitt; 2. Cleats; 3. Padeyes; 4. Bollards; 5. Chocks; and 6. Towing pad.

Successful completion of these Assessment Guidelines will provide satisfactory evidence of meeting the standard of competence specified in Section A-II/5 of the STCW Code. The use of these Assessment Guidelines is not mandatory and alternative means of having achieved the standards of competence in the STCW Code will be considered. In accordance with 46 CFR 12.601(b)(1)(i), alternative Assessment Guidelines must be approved by the National Maritime Center before use.

Task No.	STCW Competence	Knowledge, Understanding, and Proficiency	Performance Condition	Performance Behavior	Performance Standard
2.2.D	Contribute to berthing, anchoring and other mooring operations	Working knowledge of the mooring system and related procedures, including the capacities, safe working loads, and breaking strengths of mooring equipment, including mooring wires, synthetic and fiber lines, winches, anchor windlasses, capstans, bitts, chocks, and bollards	On board a ship, when questioned by a Qualified Assessor,	the candidate describes the characteristics and function of line handling equipment.	The candidate's description includes the nature of various line handling equipment or machinery on deck, including: <ol style="list-style-type: none"> 1. Capstans; 2. Winches; and 3. Wildcats.

Successful completion of these Assessment Guidelines will provide satisfactory evidence of meeting the standard of competence specified in Section A-II/5 of the STCW Code. The use of these Assessment Guidelines is not mandatory and alternative means of having achieved the standards of competence in the STCW Code will be considered. In accordance with 46 CFR 12.601(b)(1)(i), alternative Assessment Guidelines must be approved by the National Maritime Center before use.

Task No.	STCW Competence	Knowledge, Understanding, and Proficiency	Performance Condition	Performance Behavior	Performance Standard
2.3.A	Contribute to berthing, anchoring and other mooring operations	Working knowledge of the mooring system and related procedures, including the procedures and order of events for making fast and letting go mooring and tug lines and wires, including towing lines	On board ship or in a laboratory, when questioned by a Qualified Assessor,	the candidate describes the mooring system and related procedures and order of events for making fast and letting go the vessel's lines at a specific port.	<p>The candidate describes in proper order the procedures for berthing the vessel, including:</p> <ol style="list-style-type: none"> 1. The call out of crewmembers who will be involved on deck; 2. Establishing the person in charge of mooring operations; 3. Pre-mooring conference; 4. Pulling lines and wires on deck to the chocks to be used; 5. Preparing stoppers, heaving lines, and messengers, if used; 6. Exchange of pilots and docking master; 7. Taking tug's lines aboard (if applicable); 8. Passing lines and/or wires between the ship and the pier; 9. Positioning ship (warping); 10. Letting go of tugs; 11. Making fast; 12. Setting up the gangway; 13. Rigging pilots ladder, or ladder-gangway combination; 14. Bringing pilot safely on board; 15. Stowing pilot ladder or ladder-gangway 16. Pilots away; and 17. Securing from berthing operations. <p>NOTE: Particular attention should be paid to the use of safety equipment and precautions to minimize the risk of injury.</p>

Successful completion of these Assessment Guidelines will provide satisfactory evidence of meeting the standard of competence specified in Section A-II/5 of the STCW Code. The use of these Assessment Guidelines is not mandatory and alternative means of having achieved the standards of competence in the STCW Code will be considered. In accordance with 46 CFR 12.601(b)(1)(i), alternative Assessment Guidelines must be approved by the National Maritime Center before use.

Task No.	STCW Competence	Knowledge, Understanding, and Proficiency	Performance Condition	Performance Behavior	Performance Standard
2.3.B	Contribute to berthing, anchoring and other mooring operations	Working knowledge of the mooring system and related procedures, including the procedures and order of events for making fast and letting go mooring and tug lines and wires, including towing lines	On board ship or in a laboratory, when asked by a Qualified Assessor,	the candidate describes the mooring system and related procedures, including the procedures and order of events for making fast and letting go mooring and tug lines and wires, at a specific port.	<p>The candidate describes in proper order the procedures for unberthing the vessel, including:</p> <ol style="list-style-type: none"> 1. The call out of crewmembers who will be involved on deck; 2. Establishing the person in charge of mooring operations; 3. Bringing pilot aboard; 4. Preparing stoppers, heaving lines, messengers, if used; 5. Taking tug's lines aboard (if applicable); 6. Securing the gangway; 7. Bringing lines and/or wires aboard, as directed; 8. Warping the ship; 9. Letting go of tugs, if applicable; 10. Stowing lines and wires in assigned areas and using proper techniques (faking, rope baskets, coiling, etc.); 11. Exchange of pilots and docking master; and 12. Securing from berthing operations. <p>NOTE: Particular attention should be paid to the use of safety equipment and precautions to minimize the risk of injury.</p>

Successful completion of these Assessment Guidelines will provide satisfactory evidence of meeting the standard of competence specified in Section A-II/5 of the STCW Code. The use of these Assessment Guidelines is not mandatory and alternative means of having achieved the standards of competence in the STCW Code will be considered. In accordance with 46 CFR 12.601(b)(1)(i), alternative Assessment Guidelines must be approved by the National Maritime Center before use.

Task No.	STCW Competence	Knowledge, Understanding, and Proficiency	Performance Condition	Performance Behavior	Performance Standard
2.4.A	Contribute to berthing, anchoring and other mooring operations	Working knowledge of the mooring system and related procedures, including the procedures and order of events for the use of anchors in various operations	On board ship,	the candidate assists in the anchoring of the vessel.	<p>The candidate demonstrates anchoring procedures including:</p> <ol style="list-style-type: none"> 1. Preparing for letting go anchor; 2. Backing out the anchor with the anchor windlass engaged; 3. Taking the anchor windlass out of gear with the anchor windlass brake engaged; 4. Letting go the anchor; 5. Paying out the anchor chain as directed, but under control; 6. Heaving anchor; 7. Cleaning anchor chain and anchor as it is brought aboard; and 8. Securing anchor for sea. <p>NOTE: Particular attention should be paid to the use of safety equipment and precautions to minimize the risk of injury.</p>

Successful completion of these Assessment Guidelines will provide satisfactory evidence of meeting the standard of competence specified in Section A-II/5 of the STCW Code. The use of these Assessment Guidelines is not mandatory and alternative means of having achieved the standards of competence in the STCW Code will be considered. In accordance with 46 CFR 12.601(b)(1)(i), alternative Assessment Guidelines must be approved by the National Maritime Center before use.

Task No.	STCW Competence	Knowledge, Understanding, and Proficiency	Performance Condition	Performance Behavior	Performance Standard
2.5.A	Contribute to berthing, anchoring and other mooring operations	Working knowledge of the procedures and order of events associated with mooring to a buoy or buoys	On board ship, or in a laboratory, when questioned by a Qualified Assessor,	the candidate describes the procedures and order of events associated with mooring to a buoy or buoys.	<p>The candidate's description includes:</p> <ol style="list-style-type: none"> 1. Procedures when using the anchor chain; 2. Procedures when using a special heavy wire rope; 3. Use of messengers; 4. Use of slip ropes; and 5. Particular hazards associated with mooring to a buoy. <p>NOTE: Particular attention should be paid to the use of safety equipment and precautions to minimize the risk of injury.</p>
3.1.A	Contribute to the handling of cargo and stores	Knowledge of procedures for safe handling, stowage, and securing of cargoes and stores, including dangerous, hazardous and harmful substances and liquids	On board ship or in a laboratory, when questioned by a Qualified Assessor about cargo and stores handling procedures,	the candidate describes and demonstrates the safe handling, stowage, and securing of cargoes and stores, including dangerous, hazardous and harmful substances and liquids.	<p>The candidate:</p> <ol style="list-style-type: none"> 1. Describes shipboard safety procedures and equipment operating instructions, including securing gear, cargo-handling gear, and the stowage of cargo; 2. Demonstrates lashing a standard load; and 3. Demonstrates securing a non-standard load. <p>NOTE: For this purpose, a non-standard load is a load of unusual shape, weight, and/or is in a location where cargo or stores are not normally located.</p>

Successful completion of these Assessment Guidelines will provide satisfactory evidence of meeting the standard of competence specified in Section A-II/5 of the STCW Code. The use of these Assessment Guidelines is not mandatory and alternative means of having achieved the standards of competence in the STCW Code will be considered. In accordance with 46 CFR 12.601(b)(1)(i), alternative Assessment Guidelines must be approved by the National Maritime Center before use.

Task No.	STCW Competence	Knowledge, Understanding, and Proficiency	Performance Condition	Performance Behavior	Performance Standard
3.2.A	Contribute to the handling of cargo and stores	Basic knowledge of and precautions to observe in connection with particular types of cargo and identification of IMDG labeling	On board ship or in a laboratory, when questioned by a Qualified Assessor,	the candidate describes the International Maritime Dangerous Goods Code (IMDG) labels, marks, and signs.	<p>The candidate's description includes:</p> <ol style="list-style-type: none"> 1. Hazardous material labels and placards including the general hazards to personnel, the ship, and the environment; 2. Marine pollutant marks; 3. Elevated temperature marks; and 4. Orientation labels.
4.1.A	Contribute to the safe operation of deck equipment and machinery	Knowledge of deck equipment, including function and uses of valves and pumps, hoists, cranes, booms, and related equipment	On board ship, or in a laboratory, when given a list of a vessel's deck equipment by a Qualified Assessor,	the candidate describes the operation of deck equipment, including functions and uses of valves, pumps, hoists, cranes, booms, and related equipment.	<p>The candidate's description includes:</p> <ol style="list-style-type: none"> 1. Proper use of personal safety equipment; 2. Safety procedures when working with or near valves, pumps, hoists, cranes, booms, and related equipment; and 3. Limitations of the valves, pumps, hoists, cranes, booms, and related equipment including, but not limited to: <ol style="list-style-type: none"> a. Safe working loads; b. Rigging; and c. Fairleads and swing arcs.

Successful completion of these Assessment Guidelines will provide satisfactory evidence of meeting the standard of competence specified in Section A-II/5 of the STCW Code. The use of these Assessment Guidelines is not mandatory and alternative means of having achieved the standards of competence in the STCW Code will be considered. In accordance with 46 CFR 12.601(b)(1)(i), alternative Assessment Guidelines must be approved by the National Maritime Center before use.

Task No.	STCW Competence	Knowledge, Understanding, and Proficiency	Performance Condition	Performance Behavior	Performance Standard
4.2.A	Contribute to the safe operation of deck equipment and machinery	Knowledge of deck equipment, including function and uses of winches, windlasses, capstans, and related equipment	On board ship or in a laboratory, when given a list of a vessel's deck equipment by a Qualified Assessor	the candidate describes the safe operation of deck equipment, including functions and uses of winches, windlasses, capstans, and related equipment.	<p>The candidate's description includes:</p> <ol style="list-style-type: none"> 1. Proper use of personal safety equipment; 2. Safety procedures when working with or near winches, windlasses, capstans; and related equipment; and 3. Limitations of the winches, windlasses, and capstans including, but not limited to: <ol style="list-style-type: none"> a. Safe working loads; b. Rigging; and c. Fairleads and swing arcs.
4.3.A	Contribute to the safe operation of deck equipment and machinery	Knowledge of deck equipment, including hatches, watertight doors, ports, and related equipment	On board ship or in a laboratory,	the candidate demonstrates the safe operation of deck equipment, including hatches, watertight doors, ports, and related equipment.	<p>The candidate demonstrates the safe operation of hatches, watertight doors, ports, and related equipment including:</p> <ol style="list-style-type: none"> 1. Use of dogs and other securing devices; 2. Maintenance of sealing material and knife edges to create a watertight seal; 3. Inspection and repair of gouges, fractures, and other damage that may affect the strength or watertight integrity of the opening; 4. Normal operating position of the ship's watertight openings when at sea; and 5. Normal operating position of the ship's watertight openings when in port.

Successful completion of these Assessment Guidelines will provide satisfactory evidence of meeting the standard of competence specified in Section A-II/5 of the STCW Code. The use of these Assessment Guidelines is not mandatory and alternative means of having achieved the standards of competence in the STCW Code will be considered. In accordance with 46 CFR 12.601(b)(1)(i), alternative Assessment Guidelines must be approved by the National Maritime Center before use.

Task No.	STCW Competence	Knowledge, Understanding, and Proficiency	Performance Condition	Performance Behavior	Performance Standard
4.4.A	Contribute to the safe operation of deck equipment and machinery	Knowledge of deck equipment, including fiber and wire ropes, cables and chains, including their construction, use, markings, maintenance, and proper stowage	On board ship or in a laboratory, when asked by a Qualified Assessor,	the candidate describes the use and maintenance of fiber lines.	The candidate's description includes: <ol style="list-style-type: none"> 1. Personal Protective Equipment (PPE) and safe working practices; 2. Warning signs that fiber lines are about to part; 3. Proper stowage of fiber lines; 4. Maintenance of fiber lines; and 5. Limitations in the use of fiber lines.
4.4.B	Contribute to the safe operation of deck equipment and machinery	Knowledge of deck equipment, including fiber and wire ropes, cables and chains, including their construction, use, markings, maintenance, and proper stowage	On board ship or in a laboratory, when asked by a Qualified Assessor,	the candidate describes the safe use and maintenance of synthetic lines.	The candidate's description includes: <ol style="list-style-type: none"> 1. PPE and safe working practices; 2. Difference between nylon, polypropylene, polyethylene and aramid line; 3. Difference between laid line and braided line; 4. Warning signs that synthetic lines are about to part; 5. Proper stowage of synthetic lines; 6. Maintenance of synthetic lines; and 7. Limitations in the use of synthetic lines.

Successful completion of these Assessment Guidelines will provide satisfactory evidence of meeting the standard of competence specified in Section A-II/5 of the STCW Code. The use of these Assessment Guidelines is not mandatory and alternative means of having achieved the standards of competence in the STCW Code will be considered. In accordance with 46 CFR 12.601(b)(1)(i), alternative Assessment Guidelines must be approved by the National Maritime Center before use.

Task No.	STCW Competence	Knowledge, Understanding, and Proficiency	Performance Condition	Performance Behavior	Performance Standard
4.4.C	Contribute to the safe operation of deck equipment and machinery	Knowledge of deck equipment, including fiber and wire ropes, cables and chains, including their construction, use, markings, maintenance, and proper stowage	On board ship or in a laboratory, when asked by a Qualified Assessor,	the candidate describes the safe use and maintenance of wire rope.	The candidate's description includes: <ol style="list-style-type: none"> 1. PPE and safe working practices; 2. Warning signs that wire rope is about to part; 3. Specifications and information tags; 4. Proper stowage of wire rope; 5. Maintenance wire rope; and 6. Limitations in the use of wire rope.
4.4.D	Contribute to the safe operation of deck equipment and machinery	Knowledge of deck equipment, including fiber and wire ropes, cables and chains, including their construction, use, markings, maintenance, and proper stowage	On board ship or in a laboratory, when asked by a Qualified Assessor,	the candidate describes the safe use and maintenance of chain.	The candidate's description includes: <ol style="list-style-type: none"> 1. PPE and safe working practices; 2. Warning signs that chain is about to part; 3. Proper stowage; 4. Maintenance; and 5. Limitations in the use of chain.
4.5.A	Contribute to the safe operation of deck equipment and machinery	Knowledge of deck equipment, including ability to use and understand basic signals for the operation of equipment, including winches, windlasses, cranes, and hoists	On board ship or in a laboratory,	the candidate demonstrates the basic signals for the operation of winches, windlasses, cranes, and hoists.	The candidate demonstrates the safe operation of winches, windlasses, cranes, and hoists including: <ol style="list-style-type: none"> 1. Hand signals to communicate instructions and information from supervisors, spotters, and other personnel; and 2. Possible hazards, including: <ol style="list-style-type: none"> a. Description of hazards; and b. Preventative measures.

Successful completion of these Assessment Guidelines will provide satisfactory evidence of meeting the standard of competence specified in Section A-II/5 of the STCW Code. The use of these Assessment Guidelines is not mandatory and alternative means of having achieved the standards of competence in the STCW Code will be considered. In accordance with 46 CFR 12.601(b)(1)(i), alternative Assessment Guidelines must be approved by the National Maritime Center before use.

Task No.	STCW Competence	Knowledge, Understanding, and Proficiency	Performance Condition	Performance Behavior	Performance Standard
4.6.A	Contribute to the safe operation of deck equipment and machinery	Knowledge of deck equipment, including ability to operate anchoring equipment under various conditions, such as anchoring, weighing anchor, securing for sea, and in emergencies	On board ship or in a laboratory, during an anchoring operation,	the candidate demonstrates the use of anchoring equipment under various conditions.	<p>The candidate demonstrates the use of anchoring equipment including:</p> <ol style="list-style-type: none"> 1. The anchor windlass: <ol style="list-style-type: none"> a. Placing in gear; b. Taking out of gear; c. Use during mooring operations; and d. Use of brake (when heaving mooring lines or for anchor operations); 2. Riding pawl; 3. Wildcat; 4. Hawse pipe; 5. Chain locker; 6. Anchor chain attachments (e.g., padeye and pin, shackle); 7. Spill pipe; 8. Stripping bar (pawl); 9. Warping head; 10. Anchor swivel; 11. Anchor chain washing operations; 12. Chain stoppers, wire pendants, devil's claws for securing the chain; 13. Vessel security equipment (e.g., hawse pipe covers); and 14. Personnel safety.

Successful completion of these Assessment Guidelines will provide satisfactory evidence of meeting the standard of competence specified in Section A-II/5 of the STCW Code. The use of these Assessment Guidelines is not mandatory and alternative means of having achieved the standards of competence in the STCW Code will be considered. In accordance with 46 CFR 12.601(b)(1)(i), alternative Assessment Guidelines must be approved by the National Maritime Center before use.

Task No.	STCW Competence	Knowledge, Understanding, and Proficiency	Performance Condition	Performance Behavior	Performance Standard
4.6.B	Contribute to the safe operation of deck equipment and machinery	Knowledge of deck equipment, including ability to operate anchoring equipment under various conditions, such as anchoring, weighing anchor, securing for sea, and in emergencies	On board ship or in a laboratory, when asked by a Qualified Assessor,	the candidate describes anchor chain shot markings.	The candidate's description includes: <ol style="list-style-type: none"> 1. Markings for each shot; 2. Marking of chain to indicate number of shots the detachable link is from anchor; and 3. Painting of the last two shots of the anchor chain.
4.6.C	Contribute to the safe operation of deck equipment and machinery	Knowledge of deck equipment, including ability to operate anchoring equipment under various conditions, such as anchoring, weighing anchor, securing for sea, and in emergencies	On board ship or in a laboratory, when asked by a Qualified Assessor,	the candidate describes emergency anchoring procedures.	The candidate's description includes: <ol style="list-style-type: none"> 1. Standing by anchors in restricted or confined waters; 2. Letting go anchors with little headway; 3. Letting go anchors with significant headway; 4. Leaving the area if the anchor chain control is lost and the next to last and last shot is seen on the wildcat; and 5. Safety procedures and equipment used to minimize risk of injury during anchoring procedures.

Successful completion of these Assessment Guidelines will provide satisfactory evidence of meeting the standard of competence specified in Section A-II/5 of the STCW Code. The use of these Assessment Guidelines is not mandatory and alternative means of having achieved the standards of competence in the STCW Code will be considered. In accordance with 46 CFR 12.601(b)(1)(i), alternative Assessment Guidelines must be approved by the National Maritime Center before use.

Task No.	STCW Competence	Knowledge, Understanding, and Proficiency	Performance Condition	Performance Behavior	Performance Standard
4.7.A	Contribute to the safe operation of deck equipment and machinery	Knowledge of the following procedures and ability to rig and unrig bosun's chairs and staging	On board ship or in a laboratory,	the candidate rigs and unrigs a bosun's chair.	<p>The candidate:</p> <ol style="list-style-type: none"> 1. Gathers all required materials; 2. Inspects the bosun's chair: <ol style="list-style-type: none"> a. The material has not been chafed; b. The material has not been compromised by the sun or chemicals; c. Strapping is undamaged; and d. Hardware is undamaged and unworn; 3. Inspects the gantline to be used: <ol style="list-style-type: none"> a. The material has not been chafed; and b. The material has not been compromised by the sun or chemicals; 4. Inspects that hardware is serviceable; 5. Inspects the safety harness: <ol style="list-style-type: none"> a. The material has not been chafed; b. The material has not been compromised by the sun or chemicals; c. Strapping is undamaged; and d. Hardware is undamaged and unworn; 6. Gathers personnel who will be assisting and briefs them on commands to be used and safety precautions; <p style="text-align: right;"><i>Continued on next page</i></p>

Successful completion of these Assessment Guidelines will provide satisfactory evidence of meeting the standard of competence specified in Section A-II/5 of the STCW Code. The use of these Assessment Guidelines is not mandatory and alternative means of having achieved the standards of competence in the STCW Code will be considered. In accordance with 46 CFR 12.601(b)(1)(i), alternative Assessment Guidelines must be approved by the National Maritime Center before use.

Task No.	STCW Competence	Knowledge, Understanding, and Proficiency	Performance Condition	Performance Behavior	Performance Standard
4.7.A <i>Cont'd</i>					<p style="text-align: center;"><i>Continued from previous page</i></p> <ol style="list-style-type: none"> 7. Rigs the gantline; 8. Rigs the bosun's chair: <ol style="list-style-type: none"> a. For a modern bosun's chair, follow the manufacturer's recommendations; or b. For an old style bosun's chair, use a gantline; 9. Tests the rigged bosun's chair, staging, and gantlines by sitting in and/or standing on at the lowest point of the drop and bounce in the rig; 10. When raised so that feet clear the deck, secures themselves and performs a small task with both hands; 11. Frees the securing and lowers themselves to the deck; and 12. Unrigs and stows all equipment per the manufacturer's instructions.

Successful completion of these Assessment Guidelines will provide satisfactory evidence of meeting the standard of competence specified in Section A-II/5 of the STCW Code. The use of these Assessment Guidelines is not mandatory and alternative means of having achieved the standards of competence in the STCW Code will be considered. In accordance with 46 CFR 12.601(b)(1)(i), alternative Assessment Guidelines must be approved by the National Maritime Center before use.

Task No.	STCW Competence	Knowledge, Understanding, and Proficiency	Performance Condition	Performance Behavior	Performance Standard
4.8.A	Contribute to the safe operation of deck equipment and machinery	Knowledge of the following procedures and ability to rig and unrig pilot ladders, hoists, rat guards, and gangways	On board ship or in a laboratory, when asked by a Qualified Assessor,	the candidate describes the procedures to rig and unrig pilot ladders.	<p>The candidate's description includes:</p> <ol style="list-style-type: none"> 1. Inspecting the pilot ladder: <ol style="list-style-type: none"> a. No shackles, knots or splices; b. Steps equally spaced and of equal width; c. No crooked steps; d. Spreaders used as step, bottom spreader is fifth step; e. No eyes or loops on lower end; and f. Lighting, if needed, is functioning and illuminates the deck work area and pilot ladder; 2. Rigging the pilot ladder: <ol style="list-style-type: none"> a. No overboard discharges in the area where pilot will board; b. Man-ropes are ready or paid out (as required by pilot); c. Handhold stanchions or accommodation ladder are rigged; d. Bottom rung of pilot ladder is at height; requested by pilot; and e. Communications are set up with bridge; and 3. Unrig and stow pilot ladder: <ol style="list-style-type: none"> a. Pilot ladder is brought up onto deck and stowed; b. Accommodation ladder is brought up onto deck; and c. Man ropes are stowed.

Successful completion of these Assessment Guidelines will provide satisfactory evidence of meeting the standard of competence specified in Section A-II/5 of the STCW Code. The use of these Assessment Guidelines is not mandatory and alternative means of having achieved the standards of competence in the STCW Code will be considered. In accordance with 46 CFR 12.601(b)(1)(i), alternative Assessment Guidelines must be approved by the National Maritime Center before use.

Task No.	STCW Competence	Knowledge, Understanding, and Proficiency	Performance Condition	Performance Behavior	Performance Standard
4.8.B	Contribute to the safe operation of deck equipment and machinery	Knowledge of the following procedures and ability to rig and unrig pilot ladders, hoists, rat guards, and gangways	On board ship or in a laboratory, when asked by a Qualified Assessor,	the candidate describes how to rig and unrig rat guards.	The candidate's description includes: <ol style="list-style-type: none"> 1. Inspection for condition and securing lines attached; and 2. Installing rat guards on lines and other shore connections.
4.8.C	Contribute to the safe operation of deck equipment and machinery	Knowledge of the following procedures and ability to rig and unrig pilot ladders, hoists, rat guards, and gangways	On board ship or in a laboratory,	the candidate rigs and unrigs a gangway.	The candidate: <ol style="list-style-type: none"> 1. Inspects gangway for cracks, broken steps, frozen block and tackle, or missing parts; 2. Sets up gangway in preparation for use; 3. Brings gangway aboard in preparation for departure; and 4. Breaks down gangway and secures it for sea.

Successful completion of these Assessment Guidelines will provide satisfactory evidence of meeting the standard of competence specified in Section A-II/5 of the STCW Code. The use of these Assessment Guidelines is not mandatory and alternative means of having achieved the standards of competence in the STCW Code will be considered. In accordance with 46 CFR 12.601(b)(1)(i), alternative Assessment Guidelines must be approved by the National Maritime Center before use.

Task No.	STCW Competence	Knowledge, Understanding, and Proficiency	Performance Condition	Performance Behavior	Performance Standard
4.9.A	Contribute to the safe operation of deck equipment and machinery	Knowledge of the following procedures and ability to use marlin spike seamanship skills, including the proper use of knots, splices, and stoppers	On board ship or in a laboratory, or in an approved “Marlinspike Seamanship” course,	the candidate demonstrates marlinspike seamanship skills including knots, splices and stoppers, and block and tackle.	<p>The candidate:</p> <ol style="list-style-type: none"> 1. Whips eye splice OR short splice within 15 minutes; and 2. Ties knots (a) through (d) and at least six others within 15 minutes: <ol style="list-style-type: none"> a. Bowline; b. Square knot; c. Clove hitch; d. Sheet bend; e. Carrick bend; f. Rolling hitch; g. Stopper hitch; h. French bowline; i. Stage hitch; j. Running bowline; k. Bowline on a bight; l. Fisherman’s bend; m. Timber hitch; n. Cat’s paw; o. Figure eight; p. Barrel hitch; q. Round turn and two half hitches; and r. Double becket bend. <p>NOTE: The candidate should successfully demonstrate seven of the ten knots and the whipping.</p> <p style="text-align: center;"><i>Continued on next page</i></p>

Successful completion of these Assessment Guidelines will provide satisfactory evidence of meeting the standard of competence specified in Section A-II/5 of the STCW Code. The use of these Assessment Guidelines is not mandatory and alternative means of having achieved the standards of competence in the STCW Code will be considered. In accordance with 46 CFR 12.601(b)(1)(i), alternative Assessment Guidelines must be approved by the National Maritime Center before use.

Task No.	STCW Competence	Knowledge, Understanding, and Proficiency	Performance Condition	Performance Behavior	Performance Standard
4.9.A <i>Cont'd</i>					<p style="text-align: center;"><i>Continued from previous page</i></p> <ol style="list-style-type: none"> 3. Identifies various block and tackle rigs, rove to advantage, or not, and identify parts and their use. 4. Demonstrates the proper methods for handling lines, wires, cables and chains; 5. Demonstrates proper methods of securing and un-securing canvas; and 6. Demonstrates a working knowledge of the proper techniques to serve line.
4.10.A	Contribute to the safe operation of deck equipment and machinery	Use and handling of deck and cargo-handling gear and equipment access arrangements, hatches and hatch covers, ramps, side/bow/stern doors, or elevators	On board ship, or in a laboratory,	the candidate demonstrates the use of cargo-handling gear and equipment access arrangements.	<p>The candidate demonstrates the use of onboard cargo handling gear and access arrangements including:</p> <ol style="list-style-type: none"> 1. Inspecting the equipment to be used to ensuring that it is in good operating condition; 2. Performing any rigging and ensuring that all of the related equipment is readily available; 3. Releasing the dogs or other securing arrangement; 4. Opening the access way; 5. Installing or set any safety equipment and other equipment normally used when the access is open; 6. Demonstrating the use of the open access; 7. Securing the access to its “at sea” position; 8. Checking for water tightness as specified in the vessel’s operations procedures; and 9. Stowing all equipment.

Successful completion of these Assessment Guidelines will provide satisfactory evidence of meeting the standard of competence specified in Section A-II/5 of the STCW Code. The use of these Assessment Guidelines is not mandatory and alternative means of having achieved the standards of competence in the STCW Code will be considered. In accordance with 46 CFR 12.601(b)(1)(i), alternative Assessment Guidelines must be approved by the National Maritime Center before use.

Task No.	STCW Competence	Knowledge, Understanding, and Proficiency	Performance Condition	Performance Behavior	Performance Standard
4.11.A	Contribute to the safe operation of deck equipment and machinery	Use and handling of deck and cargo-handling gear and equipment pipeline systems – bilge and ballast suctions and wells	On board ship, or in a laboratory,	the candidate traces out and describes a piping system specified by the assessor.	<p>The candidate's description includes:</p> <ol style="list-style-type: none"> 1. Purpose of the system traced; 2. Location of the valves to be used to normally start and shutdown the system; 3. Location of the valves to be used in the event of an emergency shutdown of the system, including emergency shutdown devices; 4. Manual operation of each type of valve in that system, both locally and remotely operated; 5. Manual operation of any in-tank measuring devices; 6. Probable location of any leakage, what form that leakage may take, onboard notification procedures, and what precautions are to be followed; 7. Any topping off procedures that are followed; and 8. Any stripping procedures that are followed.

Successful completion of these Assessment Guidelines will provide satisfactory evidence of meeting the standard of competence specified in Section A-II/5 of the STCW Code. The use of these Assessment Guidelines is not mandatory and alternative means of having achieved the standards of competence in the STCW Code will be considered. In accordance with 46 CFR 12.601(b)(1)(i), alternative Assessment Guidelines must be approved by the National Maritime Center before use.

Task No.	STCW Competence	Knowledge, Understanding, and Proficiency	Performance Condition	Performance Behavior	Performance Standard
4.12.A	Contribute to the safe operation of deck equipment and machinery	Use and handling of deck and cargo-handling gear and equipment cranes, derricks, winches	On board ship, or in a laboratory,	the candidate demonstrates proper use of deck and cargo-handling gear and equipment cranes, derricks, and winches.	<p>The candidate:</p> <ol style="list-style-type: none"> 1. Inspects the equipment and ensures that it is in good operating condition and suitable for the load to be lifted; 2. Unstows the equipment to be used; 3. performs any rigging and ensures that all required equipment is available; 4. Lifts a load and moves it to a location designated by the assessor; 5. Secures the equipment; and 6. Stows all equipment.
4.13.A	Contribute to the safe operation of deck equipment and machinery	Knowledge of hoisting and dipping flags and the main single-flag signals (A, B, G, H, O, P, Q)	On board ship or in a laboratory, when given Publication 102 and shown the signal flags A, B, G, H, O, P, and Q,	the candidate identifies each flag and its meaning and describes hoisting procedures.	<p>The candidate:</p> <ol style="list-style-type: none"> 1. Identifies the flag by: <ol style="list-style-type: none"> a. Letter; b. Phonetic alphabet; and c. Meaning; and 2. Describes: <ol style="list-style-type: none"> a. Hauling the flag hoist “close up;” b. Lowering the flag hoist “at the dip;” and c. Reason and procedure for dipping a ship’s ensign.

Successful completion of these Assessment Guidelines will provide satisfactory evidence of meeting the standard of competence specified in Section A-II/5 of the STCW Code. The use of these Assessment Guidelines is not mandatory and alternative means of having achieved the standards of competence in the STCW Code will be considered. In accordance with 46 CFR 12.601(b)(1)(i), alternative Assessment Guidelines must be approved by the National Maritime Center before use.

Task No.	STCW Competence	Knowledge, Understanding, and Proficiency	Performance Condition	Performance Behavior	Performance Standard
5.1.A	Apply occupational health and safety precautions	Working knowledge of safe working practices and personal shipboard safety, including working aloft	On board ship or in a laboratory,	the candidate demonstrates safe working practices and personal shipboard safety when working aloft.	<p>The candidate:</p> <ol style="list-style-type: none"> 1. Identifies and complies with applicable regulatory and/or company standards; 2. Follows safe working practices; 3. Notifies other personnel as appropriate; 4. Confirms that all equipment that may create a hazard has been turned off and tagged accordingly; 5. Confirms that the ship's motion and weather conditions will remain within safe limits; 6. Selects appropriate safety equipment, and inspects and confirms as that it is safe for use; 7. Confirms that the area below has been cordoned off and placarded; and 8. Attaches lanyards to tools (if practical).

Successful completion of these Assessment Guidelines will provide satisfactory evidence of meeting the standard of competence specified in Section A-II/5 of the STCW Code. The use of these Assessment Guidelines is not mandatory and alternative means of having achieved the standards of competence in the STCW Code will be considered. In accordance with 46 CFR 12.601(b)(1)(i), alternative Assessment Guidelines must be approved by the National Maritime Center before use.

Task No.	STCW Competence	Knowledge, Understanding, and Proficiency	Performance Condition	Performance Behavior	Performance Standard
5.2.A	Apply occupational health and safety precautions	Working knowledge of safe working practices and personal shipboard safety, including working over the side	On board ship or in a laboratory, when asked by a Qualified Assessor,	the candidate describes safe working practices and personal shipboard safety when working over the side.	<p>The candidate's description includes:</p> <ol style="list-style-type: none"> 1. Awareness of applicable company or regulatory standards; 2. Knowledge of safe working practices; 3. Notifying personnel as appropriate; 4. Obtaining authorization from the appropriate vessel authority before beginning work over the side; 5. Notifying the officer in charge of the navigational watch (OICNW); 6. Confirming that all equipment that may create a hazard has been turned off and tagged accordingly; 7. Confirming that the ship's motion and weather conditions will remain within safe limits; 8. Confirming that safety equipment is used and has been checked for operational integrity and suitability for the work to be performed; 9. Confirming that lanyards are attached to tools (if practical); 10. Confirming that safety placards in the area have been read and appropriate actions taken; and 11. Notifying appropriate personnel in addition to the OICNW.

Successful completion of these Assessment Guidelines will provide satisfactory evidence of meeting the standard of competence specified in Section A-II/5 of the STCW Code. The use of these Assessment Guidelines is not mandatory and alternative means of having achieved the standards of competence in the STCW Code will be considered. In accordance with 46 CFR 12.601(b)(1)(i), alternative Assessment Guidelines must be approved by the National Maritime Center before use.

Task No.	STCW Competence	Knowledge, Understanding, and Proficiency	Performance Condition	Performance Behavior	Performance Standard
5.3.A	Apply occupational health and safety precautions	Working knowledge of safe working practices and personal shipboard safety including working in enclosed spaces	On board ship or in a laboratory, when asked by a Qualified Assessor,	the candidate describes the characteristics of an enclosed space.	The candidate's description includes that an enclosed space: <ol style="list-style-type: none"> 1. Has limited openings for entry and exit; 2. Has poor natural ventilation; and 3. Is not designed for continuous occupancy.
5.3.B	Apply occupational health and safety precautions	Working knowledge of safe working practices and personal shipboard safety, including working in enclosed spaces	On board ship or in a laboratory, when questioned by a Qualified Assessor,	the candidate describes possible scenarios that could occur during an enclosed space and the dangers involved in an enclosed space entry.	The candidate's description includes: <ol style="list-style-type: none"> 1. Workers being overcome by fumes and lack of oxygen; 2. Rescuers not using proper safety equipment and being overcome by the hazard; and 3. Stand-by personnel not being trained in their duties and what they may do that would be a hazard to themselves and others while trying to effect a rescue without proper equipment (SCBA's, communications, etc).

Successful completion of these Assessment Guidelines will provide satisfactory evidence of meeting the standard of competence specified in Section A-II/5 of the STCW Code. The use of these Assessment Guidelines is not mandatory and alternative means of having achieved the standards of competence in the STCW Code will be considered. In accordance with 46 CFR 12.601(b)(1)(i), alternative Assessment Guidelines must be approved by the National Maritime Center before use.

Task No.	STCW Competence	Knowledge, Understanding, and Proficiency	Performance Condition	Performance Behavior	Performance Standard
5.3.C	Apply occupational health and safety precautions	Working knowledge of safe working practices and personal shipboard safety, including working in enclosed spaces	On board ship or in a laboratory,	the candidate demonstrates procedures designed to safeguard personnel working in enclosed spaces.	<p>The candidate demonstrates procedures to safeguard personnel and the ship, including:</p> <ol style="list-style-type: none"> 1. Assessment of risk; 2. Entry authorization procedures; 3. General precautions; 4. Hazards isolated; 5. Ventilation; 6. Interior and exterior illumination; 7. Communications; 8. Rescue and resuscitation equipment; 9. Proper dress and safety equipment; and 10. Entry crew briefed; <ol style="list-style-type: none"> a. Atmosphere safe for men and work to be performed; and b. Potential hazards.
5.4.A	Apply occupational health and safety precautions	Working knowledge of safe working practices and personal shipboard safety, including permit to work systems	On board ship or in a laboratory, when questioned by a Qualified Assessor,	the candidate describes procedures for and spaces that require a permit to work.	<p>The candidate's description includes:</p> <ol style="list-style-type: none"> 1. Hot work; 2. Confined spaces; and 3. Other policies that require a permit to work (e.g., working aloft, over the side).

Successful completion of these Assessment Guidelines will provide satisfactory evidence of meeting the standard of competence specified in Section A-II/5 of the STCW Code. The use of these Assessment Guidelines is not mandatory and alternative means of having achieved the standards of competence in the STCW Code will be considered. In accordance with 46 CFR 12.601(b)(1)(i), alternative Assessment Guidelines must be approved by the National Maritime Center before use.

Task No.	STCW Competence	Knowledge, Understanding, and Proficiency	Performance Condition	Performance Behavior	Performance Standard
5.5.A	Apply occupational health and safety precautions	Working knowledge of safe working practices and personal shipboard safety including line handling	On board ship or in a laboratory, during a berthing operation,	the candidate demonstrates the proper handling a heaving line.	The candidate: <ol style="list-style-type: none"> 1. Inspects the heaving line for damage, wear and tear, knots, and tangling before using; 2. Untangles a heaving line that has been knotted and tangled; and 3. Coils and heaves a heaving line during mooring operations.
5.5.B	Apply occupational health and safety precautions	Working knowledge of safe working practices and personal shipboard safety, including line handling	On board ship or in a laboratory,	the candidate pulls mooring lines on deck.	The candidate: <ol style="list-style-type: none"> 1. Fakes the mooring lines so that they can run free; 2. Coils the mooring lines so that they can run free; and 3. Secures mooring lines on deck so that they do not run free until ready for use.

Successful completion of these Assessment Guidelines will provide satisfactory evidence of meeting the standard of competence specified in Section A-II/5 of the STCW Code. The use of these Assessment Guidelines is not mandatory and alternative means of having achieved the standards of competence in the STCW Code will be considered. In accordance with 46 CFR 12.601(b)(1)(i), alternative Assessment Guidelines must be approved by the National Maritime Center before use.

Task No.	STCW Competence	Knowledge, Understanding, and Proficiency	Performance Condition	Performance Behavior	Performance Standard
5.5.C	Apply occupational health and safety precautions	Working knowledge of safe working practices and personal shipboard safety including line handling	On board ship or in a laboratory, during a berthing operation,	the candidate uses a messenger line.	<p>The candidate:</p> <ol style="list-style-type: none"> 1. Selects the properly sized messenger for the anticipated strain; 2. Bends the messenger onto the eye of a mooring wire or line; then moves mooring wire or line to another location using a winch with at least one change of direction; and 3. Bends the messenger onto a straight section of wire or line; then moves mooring wire or line to another location using a winch with at least one change of direction. <p>NOTE: The knots used are suitable for the service and size of lines involved. When heaving, ensure appropriate safety precautions are observed, including proper number of turns on the capstan, hand placement, body position in relation to the messenger under tension, and avoiding the piling up of the messenger while heaving.</p>

Successful completion of these Assessment Guidelines will provide satisfactory evidence of meeting the standard of competence specified in Section A-II/5 of the STCW Code. The use of these Assessment Guidelines is not mandatory and alternative means of having achieved the standards of competence in the STCW Code will be considered. In accordance with 46 CFR 12.601(b)(1)(i), alternative Assessment Guidelines must be approved by the National Maritime Center before use.

Task No.	STCW Competence	Knowledge, Understanding, and Proficiency	Performance Condition	Performance Behavior	Performance Standard
5.5.D	Apply occupational health and safety precautions	Working knowledge of safe working practices and personal shipboard safety including line handling	On board ship moored alongside a dock, or in a laboratory,	the candidate adjusts the tension on mooring lines and wires.	<p>The candidate:</p> <ol style="list-style-type: none"> 1. Adjusts the tension of lines using the ship's winches; 2. Pays out mooring wires, under load, in a controlled manner; 3. Pays out mooring lines, on bitts, under load, in a controlled manner; 4. Takes in slack on mooring wires without sufficient tension; and 5. Takes in slack on mooring lines, on bitts and cleats, so that they have sufficient tension. <p>NOTE: The above is performed with regard to personnel working in the area, weather (both present and anticipated), cargo movement, and limitations of the ship's operations. When heaving, appropriate safety precautions are observed, including proper number of turns on the capstan, hand placement, body position, and avoiding the piling up of line.</p>

Successful completion of these Assessment Guidelines will provide satisfactory evidence of meeting the standard of competence specified in Section A-II/5 of the STCW Code. The use of these Assessment Guidelines is not mandatory and alternative means of having achieved the standards of competence in the STCW Code will be considered. In accordance with 46 CFR 12.601(b)(1)(i), alternative Assessment Guidelines must be approved by the National Maritime Center before use.

Task No.	STCW Competence	Knowledge, Understanding, and Proficiency	Performance Condition	Performance Behavior	Performance Standard
5.5.E	Apply occupational health and safety precautions	Working knowledge of safe working practices and personal shipboard safety including line handling	On board ship or in a laboratory, when questioned by a Qualified Assessor,	the candidate describes the safety precautions to be used when working with lines, wire rope, and chains.	<p>The candidate's description includes:</p> <ol style="list-style-type: none"> 1. Never stand in or reach through a bight; 2. Be aware of the tension on nearby lines, wire rope and chain in the event that they break free or snap; 3. Wear gloves when handling wire rope; 4. Keep hands at least 18 inches from a bit, padeye, capstan, warping head, block, etc.; 5. Be aware of snapback areas and avoid them; and 6. At least two people should handle mooring lines and wires on winches: one to handle the line or wire, and one on the winch controls.
5.6.A	Apply occupational health and safety precautions	Working knowledge of safe working practices and personal shipboard safety, including lifting techniques and methods of preventing back injury	On board ship or in a laboratory, when questioned by a Qualified Assessor,	the candidate describes factors that can cause or exacerbate back injury.	<p>The candidate's description includes:</p> <ol style="list-style-type: none"> 1. Stress; 2. Lack of sleep/fatigue; 3. Poor physical condition; 4. Excessive weight; 5. Excessive exercise; 6. Heavy physical work; 7. Static posture (not moving); 8. Repetitive work (involving bending, twisting, etc.); and 9. Slips, trips, and falls.

Successful completion of these Assessment Guidelines will provide satisfactory evidence of meeting the standard of competence specified in Section A-II/5 of the STCW Code. The use of these Assessment Guidelines is not mandatory and alternative means of having achieved the standards of competence in the STCW Code will be considered. In accordance with 46 CFR 12.601(b)(1)(i), alternative Assessment Guidelines must be approved by the National Maritime Center before use.

Task No.	STCW Competence	Knowledge, Understanding, and Proficiency	Performance Condition	Performance Behavior	Performance Standard
5.6.B	Apply occupational health and safety precautions	Working knowledge of safe working practices and personal shipboard safety including lifting techniques and methods of preventing back injury	On board ship, or in a laboratory,	the candidate demonstrates lifting techniques and methods of preventing back injury.	The candidate demonstrates: <ol style="list-style-type: none"> 1. Proper lifting procedures; 2. Proper procedures to set down a load; and 3. The use of back support or movement limiting devices.
5.6.C	Apply occupational health and safety precautions	Working knowledge of safe working practices and personal shipboard safety including lifting techniques and methods of preventing back injury	On board ship, or in a laboratory, when questioned by a Qualified Assessor,	the candidate describes the proper use of labor-saving devices found aboard ship.	The candidate's description includes: <ol style="list-style-type: none"> 1. Dollies; 2. Carts; 3. Ramps; 4. Block and tackle; 5. Cranes; 6. Elevators; and 7. Davits.

Successful completion of these Assessment Guidelines will provide satisfactory evidence of meeting the standard of competence specified in Section A-II/5 of the STCW Code. The use of these Assessment Guidelines is not mandatory and alternative means of having achieved the standards of competence in the STCW Code will be considered. In accordance with 46 CFR 12.601(b)(1)(i), alternative Assessment Guidelines must be approved by the National Maritime Center before use.

Task No.	STCW Competence	Knowledge, Understanding, and Proficiency	Performance Condition	Performance Behavior	Performance Standard
5.7.A	Apply occupational health and safety precautions	Working knowledge of safe working practices and personal shipboard safety, including electrical safety	On board ship or in a laboratory,	the candidate demonstrates electrical safety procedures.	<p>The candidate:</p> <ol style="list-style-type: none"> 1. Observes all pertinent instructions and warning signs aboard ship; 2. Observes all safety precautions regarding portable electric lights and tools; 3. Does not touch or operate any device that has a tag attached; 4. Does not go behind electrical switchboards; 5. Does not touch bare electric wires or connections; 6. Assumes that all circuits are live; 7. Does not remove explosion proofing globes from lighting fixtures; 8. Does not use electric cable runs to hoist or support any weight; 9. Does not use the wire ways for storage; 10. Does not permit water to get into electrical equipment; 11. Is aware that electrolyte from a storage battery can cause severe burns and can damage equipment and clothing; 12. When working on electrical motors or other equipment, has an electrician disconnect the circuit and tag it as out of commission; 13. Does not start or operate electrical equipment when flammable vapors are present; and 14. Reports any damaged electrical equipment or wiring to superior.

Successful completion of these Assessment Guidelines will provide satisfactory evidence of meeting the standard of competence specified in Section A-II/5 of the STCW Code. The use of these Assessment Guidelines is not mandatory and alternative means of having achieved the standards of competence in the STCW Code will be considered. In accordance with 46 CFR 12.601(b)(1)(i), alternative Assessment Guidelines must be approved by the National Maritime Center before use.

Task No.	STCW Competence	Knowledge, Understanding, and Proficiency	Performance Condition	Performance Behavior	Performance Standard
5.8.A	Apply occupational health and safety precautions	Working knowledge of safe working practices and personal shipboard safety, including mechanical safety	On board ship or in a laboratory, when questioned by a Qualified Assessor,	the candidate describes the hazards of shipboard equipment and the reasons for guards and safety features.	<p>The candidate's description includes:</p> <ol style="list-style-type: none"> 1. Hazards that exist; 2. Whether safety guards or devices be removed or not used; 3. Procedures to minimize the hazards, including; <ol style="list-style-type: none"> a. Portable tools; b. Hand tools; c. Machinery; d. Galley equipment; e. Low clearance areas; f. Cargo securing gear; g. Line handling; h. Unsecured material; i. High noise areas; j. High heat or cold areas (burn or freezing hazards); and k. Visibility hazards
5.9.A	Apply occupational health and safety precautions	Working knowledge of safe working practices and personal shipboard safety, including chemical and biohazard safety	On board ship or in a laboratory, during the simulation of a chemical or biohazard spill or incident,	the candidate simulates the proper response in accordance with Safety Data Sheet (SDS).	<p>The candidate:</p> <ol style="list-style-type: none"> 1. Reports the spill; 2. Refers to the SDS or is informed accordingly by a supervisor with access to an SDS; 3. Isolates the chemical or bio-hazardous material; and 4. Monitors the spill until relieved by an emergency team.

Successful completion of these Assessment Guidelines will provide satisfactory evidence of meeting the standard of competence specified in Section A-II/5 of the STCW Code. The use of these Assessment Guidelines is not mandatory and alternative means of having achieved the standards of competence in the STCW Code will be considered. In accordance with 46 CFR 12.601(b)(1)(i), alternative Assessment Guidelines must be approved by the National Maritime Center before use.

Task No.	STCW Competence	Knowledge, Understanding, and Proficiency	Performance Condition	Performance Behavior	Performance Standard
5.10.A	Apply occupational health and safety precautions	Working knowledge of safe working practices and personal shipboard safety, including personal safety equipment	On board ship or in a laboratory,	the candidate uses personal safety equipment.	<p>The candidate demonstrates and describes the purpose and intended use of the following personal safety equipment:</p> <ol style="list-style-type: none"> 1. Gloves; 2. Goggles; 3. Respirators; 4. Aprons; 5. Face shields; 6. Steel-toed shoes; 7. Hearing protection; 8. Clothing; 9. Safety harness; and 10. Head protection.
5.10.B	Apply occupational health and safety precautions	Working knowledge of safe working practices and personal shipboard safety including personal safety equipment	On board ship or in a laboratory,	the candidate demonstrates the proper use of a safety harness.	<p>The candidate:</p> <ol style="list-style-type: none"> 1. Inspects the safety harness, line and hardware; 2. Inspects the point and area the safety harness hardware will be attached; 3. Rigs the safety harness, line, and hardware; and 4. Briefs the safety harness line handler about his/her duties (if one is assigned).

Successful completion of these Assessment Guidelines will provide satisfactory evidence of meeting the standard of competence specified in Section A-II/5 of the STCW Code. The use of these Assessment Guidelines is not mandatory and alternative means of having achieved the standards of competence in the STCW Code will be considered. In accordance with 46 CFR 12.601(b)(1)(i), alternative Assessment Guidelines must be approved by the National Maritime Center before use.

Task No.	STCW Competence	Knowledge, Understanding, and Proficiency	Performance Condition	Performance Behavior	Performance Standard
6.1.A	Apply precautions and contribute to the prevention of pollution of the marine environment	Knowledge of the precautions to be taken to prevent pollution of the marine environment	On board ship or in a laboratory, when questioned by a Qualified Assessor;	the candidate describes the sources of operational pollution.	The candidate's description includes: <ol style="list-style-type: none"> 1. Oil; 2. Noxious liquid substances; 3. Packaged goods and non-liquid substances; 4. Sewage; 5. Garbage; and 6. Air pollution.
6.1.B	Apply precautions and contribute to the prevention of pollution of the marine environment	Knowledge of the precautions to be taken to prevent pollution of the marine environment	On board ship or in a laboratory, when questioned by a Qualified Assessor,	the candidate describes the precautions to be taken to prevent pollution of the marine environment.	The candidate's description includes: <ol style="list-style-type: none"> 1. Collection, sorting by type, storage of garbage on board; 2. Deck preparations for preventing or controlling pollutants due to the transfer of cargo, fuel, or passengers; 3. Transferring garbage ashore for disposal; and 4. Making rounds of areas that are under the responsibility of the deck department for pollution prevention and control.
6.2.A	Apply precautions and contribute to the prevention of pollution of the marine environment	Knowledge of the use and operation of anti-pollution equipment	On board ship or in a laboratory, when questioned by a Qualified Assessor,	the candidate describes the use of shipboard anti-pollution equipment.	The candidate's description includes the location of: <ol style="list-style-type: none"> 1. Spill response kits including spill mitigation equipment and types of spills that the equipment is effective on; and 2. Fittings and materials such as plugs, caps, flanges, and other equipment that can be used to stop leaks in the cargo, ballast, bunker, etc., systems.

Successful completion of these Assessment Guidelines will provide satisfactory evidence of meeting the standard of competence specified in Section A-II/5 of the STCW Code. The use of these Assessment Guidelines is not mandatory and alternative means of having achieved the standards of competence in the STCW Code will be considered. In accordance with 46 CFR 12.601(b)(1)(i), alternative Assessment Guidelines must be approved by the National Maritime Center before use.

Task No.	STCW Competence	Knowledge, Understanding, and Proficiency	Performance Condition	Performance Behavior	Performance Standard
6.3.A	Apply precautions and contribute to the prevention of pollution of the marine environment	Knowledge of the approved methods for disposal of marine pollutants	On board ship or in a laboratory, when questioned by a Qualified Assessor,	the candidate lists the expected types of waste that could be generated aboard the vessel and describes the proper manner of collection and storage so that the pollution potential of that waste is minimized.	The candidate's description includes: <ol style="list-style-type: none"> 1. Contaminated rags; 2. Contaminated booms; 3. Garbage; 4. Damaged drums; 5. Contaminated sorbents; and 6. Other contaminated material specific to the type of vessel the assessment is performed on.
7.1.A <i>Course</i>	Operate survival craft and rescue boats	Knowledge of the operation of survival craft and rescue boats, their launching appliances and arrangements, and their equipment Knowledge of survival at sea techniques	This KUP is satisfied if the candidate holds or qualifies for an STCW endorsement for Proficiency in Survival Craft or Proficiency in Survival Craft-Limited or by the successful completion of an approved or accepted Proficiency in Survival Craft or Proficiency in Survival Craft-Limited course.		

Successful completion of these Assessment Guidelines will provide satisfactory evidence of meeting the standard of competence specified in Section A-II/5 of the STCW Code. The use of these Assessment Guidelines is not mandatory and alternative means of having achieved the standards of competence in the STCW Code will be considered. In accordance with 46 CFR 12.601(b)(1)(i), alternative Assessment Guidelines must be approved by the National Maritime Center before use.

Task No.	STCW Competence	Knowledge, Understanding, and Proficiency	Performance Condition	Performance Behavior	Performance Standard
8.1.A	Contribute to shipboard maintenance and repair	Knowledge of surface preparation techniques	On board ship or in a laboratory, when asked by a Qualified Assessor,	the candidate prepares a surface for paint, caulk, or sealant	<p>The candidate:</p> <ol style="list-style-type: none"> 1. Evaluates the surface to be prepared: <ol style="list-style-type: none"> a. Type of material; b. Current coating (or caulk, or sealant); c. Condition of coating; and d. Area to be coated; 2. Evaluates the coating (or caulk, sealant) to be used: <ol style="list-style-type: none"> a. Coating (or caulk, sealant) bonds to surface and/current coating; b. The need for primer needed; c. Hazards of using the coating (and primer); and d. Equipment needed to coat the surface; 3. Evaluates the hazards involved in the area surrounding the surface to be prepared; 4. Evaluates the resources available to prepare the surface: <ol style="list-style-type: none"> a. Power sources available; b. Man-power available; and c. Safety equipment available; 5. Identifies the correct tools to be used; 6. Uses correct products; and 7. Prepares the surface to ensure that it has a clean surface with the proper texture so coating will bond securely.

Successful completion of these Assessment Guidelines will provide satisfactory evidence of meeting the standard of competence specified in Section A-II/5 of the STCW Code. The use of these Assessment Guidelines is not mandatory and alternative means of having achieved the standards of competence in the STCW Code will be considered. In accordance with 46 CFR 12.601(b)(1)(i), alternative Assessment Guidelines must be approved by the National Maritime Center before use.

Task No.	STCW Competence	Knowledge, Understanding, and Proficiency	Performance Condition	Performance Behavior	Performance Standard
8.2.A	Contribute to shipboard maintenance and repair	Ability to use painting, lubrication and cleaning materials and equipment	On board ship or in a laboratory, when asked by a Qualified Assessor,	the candidate prepares and paints a surface.	The candidate: <ol style="list-style-type: none"> 1. Applies the proper primer (if required); 2. Applies the coating; 3. Uses the proper tool for spreading the coating onto the prepared surface (e.g., brush, roller, sprayer); 4. Blocks off of the area to be coated and secures ship's equipment that may be affected; 5. Mixes the primer and coating as required (in accordance with manufacturer's instructions); 6. Uses appropriate protective equipment; and 7. Marks off the coated area so that it is not disturbed until ready for use.
8.3.A	Contribute to shipboard maintenance and repair	Ability to understand and execute routine maintenance and repair procedures	On board ship or in a laboratory, when asked by a Qualified Assessor,	the candidate demonstrates the lubrication of shipboard equipment.	The candidate properly lubricates the following: <ol style="list-style-type: none"> 1. Roller chocks/fairleads so they turn freely; 2. Gangways and associated tackle; 3. Safety equipment (in accordance with manufacturer's and company's recommendations); 4. Cargo equipment (in accordance with manufacturer's and company's recommendations); and 5. Other ship's equipment, as needed.
8.3.B	Contribute to shipboard maintenance and repair.	Ability to understand and execute routine maintenance and repair procedures	On board ship or in a laboratory, when asked by a Qualified Assessor,	the candidate demonstrates inspection of shipboard equipment.	The candidate inspects for proper operation of the following: <ol style="list-style-type: none"> 1. Watertight doors; 2. Winches; 3. Cranes; and 4. Valves.

Successful completion of these Assessment Guidelines will provide satisfactory evidence of meeting the standard of competence specified in Section A-II/5 of the STCW Code. The use of these Assessment Guidelines is not mandatory and alternative means of having achieved the standards of competence in the STCW Code will be considered. In accordance with 46 CFR 12.601(b)(1)(i), alternative Assessment Guidelines must be approved by the National Maritime Center before use.

Task No.	STCW Competence	Knowledge, Understanding, and Proficiency	Performance Condition	Performance Behavior	Performance Standard
8.4.A	Contribute to shipboard maintenance and repair.	Understanding manufacturer's safety guidelines and shipboard instructions	On board ship or in a laboratory, when asked by a Qualified Assessor,	the candidate demonstrates tag out/lock out procedures.	The candidate demonstrates tag out/lock out procedures.
8.4.B	Contribute to shipboard maintenance and repair.	Understanding manufacturer's safety guidelines and shipboard instructions	On board ship or in a laboratory, when asked by a Qualified Assessor to locate manufacturer's safety guidelines and/or shipboard instructions,	the candidate locates the guidelines and instructions specified by the assessor.	The candidate locates the correct manuals and/or instructions.
8.5.A	Contribute to shipboard maintenance and repair.	Knowledge of safe disposal of waste materials	On board ship or in a laboratory, when asked by a Qualified Assessor,	the candidate safely disposes of shipboard waste materials.	The candidate demonstrates the proper disposal of waste materials from: <ol style="list-style-type: none"> 1. Surface preparations; 2. Coating surfaces; 3. Lubricating; 4. Hand and power tool maintenance; and 5. Placing equipment in service (i.e., packaging).
8.6.A	Contribute to shipboard maintenance and repair.	Knowledge of the application, maintenance and use of hand and power tools	On board ship or in a laboratory, when asked by a Qualified Assessor,	the candidate demonstrates the use and maintenance of hand and power tools.	The candidate demonstrates proper maintenance and use of: <ol style="list-style-type: none"> 1. Wrenches; 2. Screwdrivers; 3. Air-powered or electrical hand grinders; 4. Files; and 5. Knives.

Successful completion of these Assessment Guidelines will provide satisfactory evidence of meeting the standard of competence specified in Section A-II/5 of the STCW Code. The use of these Assessment Guidelines is not mandatory and alternative means of having achieved the standards of competence in the STCW Code will be considered. In accordance with 46 CFR 12.601(b)(1)(i), alternative Assessment Guidelines must be approved by the National Maritime Center before use.