

Syllabus for Able Seafarer Deck

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<p>Contribute to a safe navigational watch</p>	<p>Demonstrate or provide evidence of:</p> <ol style="list-style-type: none"> 1. Ability to use a compass to take bearings and state them relative to compass north and the ship's head. 2. Knowledge of the precautions required with regard to ferro-magnetic materials when using a magnetic compass. 3. Knowledge of the precautions required when using a gyro compass with regard to comparison with the magnetic compass. 4. Knowledge of the consequences of relying on automatic pilot with regard to fatigue and accuracy of course and know the circumstances under which an automatic pilot should not be used. 5. Knowledge of how to steer a vessel on automatic pilot. 6. Knowledge of the procedure for keeping a proper lookout in order to maintain a margin of safety between own vessel and other traffic. 7. Ability to correctly identify risk of collision using compass bearings visually and by radar. 8. Ability to correctly identify that the vessel may be too close to land by radar, echo sounder, GPS and ECDIS. 9. Knowledge of the dangers of: <ol style="list-style-type: none"> a. relying on radar instead of a visual lookout or attempting to interpret radar displays without proper training b. operating radar without proper training c. operating GPS equipment without proper training d. operating ECDIS (electronic chart) equipment without proper training. 10. Ability to correctly identify all the signs of dragging anchor when on anchor watch. 11. Knowledge of the following recommended safe watchkeeping practices: <ol style="list-style-type: none"> a. watchkeepers to be experienced and capable b. precautions to be taken against fatigue c. numbers of watchkeepers to be increased at critical times d. auto pilot to have a frequent re-set alarm e. radar to be used in addition to, and not instead of, a visual lookout f. hazards associated with 'divided command' of lookouts

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	<p>g. lookout to include both sight and sound.</p> <p>12. Knowledge of the procedures to maintain fire and safety patrols during the watch.</p> <p>13. Ability to correctly identify the navigation lights and day shapes of other vessels.</p> <p>14. Knowledge of the correct action to be taken to avoid collisions with other vessels.</p> <p>15. Ability to correctly identify navigation marks.</p> <p>16. Knowledge of the correct action to be taken in accordance with navigation marks.</p> <p>17. Knowledge of all the methods of signalling distress available to the crew.</p> <p>18. Ability to, with the aid of models, activate the various distress signals.</p> <p>19. Ability to tune an SSB or VHF radio transmitter in order to send out a distress signal and correctly repeat the form of a MAYDAY call.</p> <p>20. Ability to monitor GMDSS and what action to take.</p> <p>Demonstrate:</p> <p>1. Knowledge of hoisting and dipping flags and the main single-flag signals (A, B, G, H, O, P, Q).</p>
<p>Contribute to berthing, anchoring and other mooring operations</p>	<p>Demonstrate or provide evidence of:</p> <p>1. Ability to operate anchoring equipment under various conditions including anchoring, weighing anchor and anchoring in emergencies.</p> <p>2. Knowledge of mooring operations and their hazards, including tug lines and procedures and order of events associated with mooring to a buoy or buoys.</p> <p>3. SWL, breaking strengths etc of mooring equipment.</p> <p>4. State the precautions to observe when working with mooring ropes.</p> <p>5. State the dangers of misusing nylon ropes.</p> <p>6. State the precautions to observe when working with fibre and wire ropes.</p> <p>7. State the signs of wear and potential failure in fibre and wire ropes, including those in use.</p> <p>8. Ability to use rat guards.</p> <p>9. Knowledge of the duties of an Able Seafarer Deck in checking and preparing the vessel for sea, including heavy weather.</p>

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<p>Contribute to the handling of cargo and stores</p>	<p>Demonstrate or provide evidence of:</p> <ol style="list-style-type: none"> 1. Knowledge of the procedures for safe handling, stowage and securing of cargoes and stores including dangerous, hazardous and harmful liquids and substances. 2. Basic knowledge of and precautions to observe in connection with particular types of cargo and identification of IMDG labelling. 3. Knowledge that there are on board various dangerous goods codes.
<p>Contribute to the safe operation of deck equipment and machinery</p>	<p>Demonstrate or provide evidence of:</p> <ol style="list-style-type: none"> 1. Ability to identify from a diagram or model and understand the construction, application and purpose of each of the following pieces of deck equipment on seagoing vessels. State precautions, where applicable, to be taken when operating each piece of deck equipment: <ol style="list-style-type: none"> a. winches b. windlasses, surge drums and capstans c. derricks and shipboard cranes d. blocks (including power blocks and snatch blocks) e. freeing ports f. hatches g. lifts and ramps h. bow and stern doors, side ramps and elevators i. container, and ro-ro ship, lashings j. other cargo handling equipment. 2. Knowledge of how to rig gangways, gantries and pilot ladders safely, keep a gangway watch and escort pilots on board. 3. Knowledge of pipeline systems, bilge and ballast suctions and wells. 4. Ability to correctly identify manila, polypropylene, polyethylene, nylon and terylene ropes stating their main characteristics and uses. 5. Knowledge of the treatment of fibre and wire ropes to maximise their working life. <p>Demonstrate the ability to:</p> <ol style="list-style-type: none"> 1. Use and understand basic signals for the operation of equipment, including winches, windlasses, cranes and hoists.

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	<ol style="list-style-type: none"> 2. Create and state the uses of the following knots, bends and hitches: <ol style="list-style-type: none"> a. reef knot b. round turn and two half hitches c. bowline d. bowline on the bight e. rolling hitch f. sheet bend (single and double) g. fisherman's bend (anchor bend) h. clove hitch i. timber hitch j. blackwall hitch k. figure of eight. 3. Create the following splices in synthetic rope: <ol style="list-style-type: none"> a. eye splice in 3 strand synthetic rope (5 tucks) and multiplait (4 tucks) b. back splice in 3 strand synthetic rope (3 tucks) c. short splice in 3 strand synthetic rope (4 tucks) d. cut splice in 3 strand synthetic rope. 4. Create an eye splice in wire rope. 5. Create a whipping to prevent the end of the rope unlaying. 6. Apply a rope stopper on a fibre rope and a chain stopper on a wire rope. 7. Rig a bosun's chair. 8. Rig a stage. 9. Rig a gun tackle, handy billy, two fold purchase and 3 fold purchase and describe the purpose of tackles as machines with regard to power gained.
Apply occupational health and safety precautions	<p>Demonstrate or provide evidence of:</p> <ol style="list-style-type: none"> 1. Ability to identify protective clothing and when it should be used. 2. Knowledge of measures to be taken to prevent falling or being swept overboard. 3. Knowledge of how to work aloft, and over the side, safely. 4. Knowledge of the hazards of gases, fuels, paints, solvents and other chemicals

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	<p>used on board and precautions to be taken.</p> <ol style="list-style-type: none"> 5. Identify hazard areas on deck and precautions to be taken. 6. Knowledge of the procedures and reasons for maintaining ship cleanliness and for maintaining personal hygiene. 7. Knowledge of is additional training required for tankers, passenger ships, and other specialised vessels. 8. Knowledge of need for induction and familiarisation training on joining a new ship. 9. Knowledge that there are on board various codes of safe working practises for seafarers. 10. Knowledge of the dangers of, and procedures for, working in enclosed spaces and the permit to work system. 11. Knowledge of lifting techniques and methods of preventing back injury. 12. Knowledge of electrical and mechanical safety. 13. Ability to identify the following adverse effects which influence work practices on board a seagoing vessel and develop means to overcome them: <ol style="list-style-type: none"> a. isolation b. dependence on other crew c. discomfort d. fatigue e. commercial pressures.
<p>Apply precautions and contribute to the prevention of pollution of the marine environment</p>	<p>Demonstrate or provide evidence of:</p> <ol style="list-style-type: none"> 1. Knowledge of the consequences of not preserving the marine environment. 2. Knowledge of the shipboard use of waste management and marine oil spill emergency plans. 3. Knowledge of the methods of disposing of waste at sea and in port, including but not limited to strapping, plastic, rubbish, sewage and engine oil waste.
<p>Contribute to shipboard maintenance and repair</p>	<p>Demonstrate:</p> <ol style="list-style-type: none"> 1. Knowledge of how to use painting, lubrication and cleaning materials and equipment. 2. Knowledge of how to understand and execute routine maintenance and repair

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	<p>processes.</p> <p>3. Knowledge of surface preparation techniques.</p> <p>Demonstrate or provide evidence of:</p> <ol style="list-style-type: none"> 1. Ability to understand manufacturer's safety guidelines and shipboard instructions. 2. Knowledge of safe disposal of waste materials. 3. Knowledge of the application, maintenance and use of hand and power tools.