

DETAILED TEACHING SYLLABUS

Seamanship course

Learning Objectives	IMO Ref.	Ref. Texts	Teach. Aid
<p>I. What is Seaworthiness? -Define</p> <p>II. Stowage for Sea</p> <p>A. Housekeeping duties</p> <ul style="list-style-type: none">-Keep oily rags in metal container with lid-No wet/soil gear in living quarters-Fire extinguishers kept clear-Galley clean-Dispose of garbage-Cooking gear secured-Proper food storage-Sanitary hand/toilet <p>B. General Deck duties</p> <ul style="list-style-type: none">-Store sharp objects-Clean decks-Secure loose gear-Coil line-ladders properly hung-Hatch cover closed-Passageways clean-Exits clear-PPE used-LO/TO plus used-Lower and secure shackles and gear-Keep watertight doors closed <p>C. Securing the vessel prior to leaving port</p> <ul style="list-style-type: none">-Secure hatches-Secure load from shifting-Store/secure weights low <p>III. Line Handling</p> <p>A. Definitions</p>			

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<ul style="list-style-type: none">-Fiber Rope-Synthetic Rope-Wire Rope B. Usage of fiber rope<ul style="list-style-type: none">-Do's and Don't's of using natural fiber C. Synthetic cordage use<ul style="list-style-type: none">-Types-Dangers D. Wire rope usage<ul style="list-style-type: none">-Do's and Don'ts of wire rope-Maintenance of wire rope IV. Ship Handling<ul style="list-style-type: none">A. Six hazards speed should be decreased<ul style="list-style-type: none">-Rough seas-To allow bow to rise-Diminishing stability-Poor visibility-Congested traffic-Increasing draft B. Identify a risk for each following positions of vessel to seas<ul style="list-style-type: none">-Head on-Beam to-Astern C. What are the most effective angles to take on seas from the bow D. Steps to turn the vessel in heavy weather E. Best person to have the wheel during heavy weather			

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<p>F. Two risks of using autopilot -Failure and sudden turn -Not as responsive as hand steering in rough seas</p> <p>G. Define heaving to and conditions for using this technique.</p> <p>H. Identify use of sea anchor</p> <p>Taking Precautions to Prevent Pollution of the Marine Environment</p> <p>A. Understands the effects of operational or accidental pollution of the marine environment</p> <ol style="list-style-type: none">Recognizes the short and long term effects of pollution on water, the shoreline, or marine life to include the following:<ol style="list-style-type: none">Reduction/loss of marine life (short and long term)Imbalance of ecosystems (long term)Oil coated shoreline (short term)Contamination of/decrease in commercial fishery (short and long term)Disruption of food chain (short and long term)Defines the provisions of OPA 90 as it relates to shipboard pollution prevention <p>B. Identifies the basic environmental protection procedures based on the provisions of MARPOL</p> <ol style="list-style-type: none">Describes the following important provisions of MARPOL annexes 1 & 5:<ol style="list-style-type: none">It is illegal to dump all garbage within 3 nautical miles of shoreBetween 3 and 12 miles from shore, it is illegal to dump garbage >1"Between 12 and 25 miles from shore, it is illegal to dump floatable packaging, dunnage and lining materialsIt is illegal to dump plastics anywhereThe discharge of oil is prohibitedExplains why operational procedures must be followed to safeguard the marine environment based on the appropriate tenets of MARPOL to include the following concepts:<ol style="list-style-type: none">Operational procedures reflect			

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<p>requirements of the law</p> <ul style="list-style-type: none">b) Operational procedures reflect the analysis of how the ship systems need to operate to comply with the lawc) Operational procedures are designed to take the "guess work" out of safeguarding the marine environment <p>A. Fatigue</p> <ul style="list-style-type: none">1. Definition of Rest Rest means a period of time during which the person concerned is off duty, is not performing work, including administrative tasks such as chart corrections or preparation of port entry documents and is allowed to sleep without being interrupted2. Rest is not a substitute for sleep. <p>Understanding and taking necessary controls to Control Fatigue</p> <ul style="list-style-type: none">1. Explain the importance of obtaining the necessary rest2. Clearly explain the effects of sleep, schedules and the circadian rhythm on fatigue3. Understand the Physical and Environmental stressors in and outside the ship4. Clearly discuss the effects of schedule changes5. Practice filling out a Records of hours of work or rest			

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