Questions should be framed managing the ship as a whole.

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| Seafarer ID |  | Exam location |  |
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| Name |  | Examiner |  |
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| Duration |  | Result |  |
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| Date and Time |  | Attempt |  |

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| Management and shipmaster’s business | | |
| Limits to near coastal certificates and area of operation | A |  |
|
| Class societies, flag state | B |  |
| Load-line rules, conditions of assignment | B |  |
| International conventions relevant to domestic vessels e.g. MARPOL and SOLAS | B |  |
|
| Navigation Act, marine orders and the national law | B |  |
|
| Safety management systems, master’s authority, standard and emergency operating procedures, drills, maintenance and document review, safe access | A |  |
| WHS legislation, safety meetings, duty of care | A |  |
| Log book entries | B |  |
| Responsibilities and duties | A |  |
| Approved stability information | B |  |
| Statutory certificates, validity | A |  |
| Taking over and joining a vessel | A |  |
| Types of survey, preparation | B |  |
| Reporting of incidents, near misses and deficiencies | A |  |
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| Standards of watchkeeping | | |
| Fitness for duty, fatigue, drugs and alcohol | B |  |
| Maintaining a proper lookout | A |  |
| Maintaining an anchor watch | A |  |
| Navigation in restricted visibility | A |  |
| Navigation in congested waters | A |  |
| Navigation with pilot on board | A |  |
| Performing a watch, position fixing | A |  |
| Taking over, handing over a watch | A |  |
| Voyage planning | A |  |
| Watchkeeping records, night orders | A |  |

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| Bridge equipment | | |
| Use of S band, 10cm, and X band, 3cm, radars | B |  |
| AIS precautions | B |  |
| ARPA, use of, and precautions | B |  |
| ECDIS, chart plotters and various bridge equipment | A |  |
| Radar set up, testing, precautions | B |  |

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| Navigational charts and publications | | |
| Chart corrections, symbols and abbreviations | A |  |
| Gyro, magnetic compass, errors variation, deviation | A |  |
| Interpretation, use of information contained on charts | A |  |
| Marine notices, Notices to Mariners | A |  |
| Navigation warnings, EGC,MSI, radio-watch, meteorological warnings | B |  |
| Ship reporting systems, VTIS | B |  |
| Types and different uses of charts | A |  |
| Tidal calculations, chart datum | A |  |
| Methods of obtaining compass errors | A |  |
| Methods of obtaining position lines | A |  |

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| Stress and stability | | |
| Effect of density on draft | A |  |
| Basic principles of flotation | A |  |
| Free surface effect, angle of loll | A |  |
| Draw and interpret a GZ curve, stability definitions (e.g.) angle of deck immersion, angle of downflooding | A |  |
| Knowledge of different types of shipboard stresses and stability information | A |  |
| Cargo shift and listing | A |  |
| Load line marks and draft reading | A |  |
| Seasonal zones | A |  |
| Ship structure, design features, and loading practices to reduce stresses | A |  |

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| Cargo work | | |
| IMSBC code and carriage of bulk cargoes (basic understanding) | A |  |
| Cargo securing | A |  |
| Statutory requirements, testing and inspection of equipment, and records | B |  |
|
| Case studies – cargo related | A |  |
| Heavy lift precautions | A |  |
| IMDG code, documentation, segregation and marking | A |  |
|
| Bridge visibility | B |  |
| Loading / discharging precautions | A |  |
| Maintain cargo watch, records | A |  |
| Ship shore safety checklist | A |  |
| Ballasting / de-ballasting | A |  |

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| Marine engineering systems | | |
| Engineering systems e.g. steering gear | B |  |
| Engine room alarms and failures | B |  |

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| Ship handling |  |  |
| Effect of wave impact on vessels structure | B |  |
| Effects of UKC on vessel manoeuvrability | B |  |
| Embarking and disembarking pilot | B |  |
| Launching rescue craft / liferaft in adverse weather | B |  |
| Mooring, unmooring, dredging, anchor | B |  |
| Preparations for anchoring, choosing anchorage, anchoring in adverse weather, dragging anchor | A |  |
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|
| Fixed blade and CPP propellers, bow thrusters | B |  |
| Vessel and tug interaction, tug safety | B |  |
| Factors affecting squat, bank effect and interaction | A |  |
| Turn vessel short round, transverse thrust, use of anchor for manoeuvring | B |  |

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| Prevention of pollution | | |
| Action to be taken in the event of a pollution incident | A |  |
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| Action taken to prevent pollution | A |  |
| Garbage management plan record book | A |  |
| Precautions while bunkering | B |  |
| SOPEP, MARPOL and annexes | B |  |

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| Emergency situations, response and equipment | | |
| Case studies | B |  |
| Action in the event of blackout / steering failure | A |  |
| Action in the event of grounding | A |  |
| Action in the event of collision | A |  |
| Action in the event of water ingress | A |  |
| Confined space entry | A |  |
| Distress, urgency and safety messages | B |  |
| Towing, taken in tow | B |  |
| MOB, rescue of persons in water | B |  |
| Means of controlling flooding when fighting a fire on board ship | B |  |
| Onset of heavy weather, weather forecasting | B |  |
| TRS, avoidance of TRS | B |  |
| Principles of damage control | B |  |
| Response to emergency in port | B |  |
| Preparations for heavy weather | B |  |

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| Dry docking | | |
| Preparations for docking, stability | A |  |
| Procedures prior to leaving dock | B |  |
| Types of docks | C |  |

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| Search and rescue | | |
| Communications | B |  |
| SAR procedures | B |  |
| Use and testing of EPIRB | B |  |

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| Essential shipboard equipment and machinery | | |
| Routine maintenance, deck machinery, watertight bulkheads | A |  |
| Anchors, cables, pilot ladders | C |  |
| Maintenance of bilges, ballast tanks | A |  |
| Maintenance records, planned maintenance | A |  |
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| Practical knowledge of safety aspects, and precautions, related to operating equipment | B |  |
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| Practical operation & maintenance of various types of shipboard firefighting and lifesaving equipment | A |  |
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| Types of fire detection systems, use of SCBA, emergency fire pumps and emergency shutoffs | B |  |
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| Collision regulations | | |
| Buoyage region A | A |  |
| Rules 1,2,3 and annexes | A |  |
| Rules 4-18 | A |  |
| Rules 20-31 | A |  |
| Rules 32-25 | A |  |
| Rule 19 | A |  |
| Use of radar (in determining risk of collision, other vessels movement, action to be taken to avoid collision, excluding ARPA) | B |  |