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**REPUBLIC OF THE PHILIPPINES**

**DEPARTMENT OF TRANSPORTATION**

**MARITIME INDUSTRY AUTHORITY**

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| **INVENTORY OF TEACHING AIDS AND REFERENCES** |

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| **Training Course:** | Ratings as Able Seafarer Engine in a Manned Engine-Room or Designated to Perform Duties in a Periodically Unmanned Engine-Room | | |
| **Name of Maritime Training Institution:** | |  |

| *Note: Substitute textbooks and videos can be used provided they contain the same content of the required.* | **Self-Assessment** | | **Tabletop Evaluation** | | **Inspection** | | **Remarks** |
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| **To be accomplished by applicant MTI** | | **To be accomplished by designated Tabletop Evaluator** | | **To be accomplished by designated Evaluation and Inspection Team (EIT)** | |
| **Items** | **Hardcopy** | **Electronic Copy** | **Complied** | **Not Complied** | **Complied** | **Not Complied** |  |
| **Teaching Aids (A):** | | | | | | | |
| 1. Visual Presentations |  |  |  |  |  |  |  |
| 1. Training videos about the following:  * How to maintain an engineering watch as support level * Fueling and transferring operation including connecting/ disconnecting hoses and securing same * How to measure tank level by top and bottom sounding * Ballasting, deballasting and bilge transfer operation * Reporting incidents regarding transfer operations * Hoist and lifting equipment * Surface preparations techniques * Safe disposal of waste materials * How to use various hand and power tools and measuring instruments * Types of metal works * Safe handling, stowage and securing of stores * Pollution prevention of marine environment * Use and operation of antipollution equipment * Different voltages onboard * Different tools for measuring/testing electrical equipment |  |  |  |  |  |  |  |
| 1. Safety Posters  * Standard hand signals for controlling crane operations |  |  |  |  |  |  |  |
| 1. IMO Charts and Symbols |  |  |  |  |  |  |  |
| 1. Manual/s  * Sample of manufacturer’s safety guidelines and shipboard instructions * Equipment instructional manual * Practical Guidance on communication for safe lifting and hoisting operations (OMHEC) |  |  |  |  |  |  |  |
| 1. Forms  * Sample work permits |  |  |  |  |  |  |  |
| 1. Exercise Sheets   A7.1 Receive order and communicate with the OOW in carrying out the procedures for relieving, maintaining and handing over of a watch and relieve, maintain and handover a watch  A7.2 Identification and Reporting of unsafe conditions, potential hazards and deviations from the norm of main propulsion and auxiliary machineries  A7.3 Monitoring of performance of auxiliary machineries and record appropriate entries in the engine logbook  A7.4 Carry out the fueling and oil transfer operations  A7.5 Carry out the operating procedures of bilge and ballast system transfer operation  A7.6 Operate the following equipment:   * valves and pumps * hoist and lifting equipment * hatches, watertight doors, ports and related equipment   A7.7 Perform basic crane, winch and hoist signal in accordance with established procedure  A7.8 Perform isolation and emergency procedures in the operation of electrical equipment  A7.9 Recognize and report electrical hazards and unsafe electrical equipment  A7.10 Apply surface preparation techniques and use equipment for painting, lubrication and cleaning to carry out maintenance procedures  A7.11 Use hand and power tools, measuring instruments and machine tools to carry out shipboard maintenance and repair  A7.12 Carry out the procedures for safe handling, stowage and securing of stores  A7.13 Use the anti-pollution equipment in accordance with the established procedures  A7.14 Perform occupational health and safety procedures |  |  |  |  |  |  |  |
| **IMO References (R):**  *MTIs may use additional references as deemed necessary to meet the intended learning outcomes of this training course.* | | | | | | | |
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| 1. International Maritime Organization (2000). *Standard Marine Communication Phrases (SMCP)*. |  |  |  |  |  |  |  |
| 1. International Maritime Organization (2003). *Code of Safe Working Practice for Cargo Stowage and Securing* |  |  |  |  |  |  |  |
| 1. International Maritime Organization (2005). *Guidelines for Ballast Water Exchange. (MEPC.124(53)* |  |  |  |  |  |  |  |
| 1. International Maritime Organization (2011). *Revised Guidelines for Systems for Handling Oily Wastes in Machinery Spaces of Ships Incorporating Guidance Notes for an Integrated Bilge Water Treatment System (IBTS)* (MEPC.1/ Circ.642, As amended MEPC.1/CIRC.676) |  |  |  |  |  |  |  |
| 1. International Maritime Organization. (2011). *International Convention for the Prevention of Pollution from Ships (MARPOL)* |  |  |  |  |  |  |  |
| 1. International Maritime Organization. (2012). *International Maritime Dangerous Goods Code (IMDG 2016 Edition)* |  |  |  |  |  |  |  |
| **Bibliography (B):**  *The MTIs may choose books from the following bibliography or they may use other or additional references provided it has similar content of the latest edition. Electronic publications may be accepted as alternatives to printed copies of the latest editions and must be sourced from authorized publishers.* | | | | | | | |
| 1. Baltic and International Council & The International Bunker Industry Association. *Bunkering guide*. BIMCO Bagsvaerd Denmark; The International Bunker Industry Association Ground Floor Latimer House 5-7 Cumberland Place Southampton, Hampshire. |  |  |  |  |  |  |  |
| 1. ClassNK (latest edition). *Good maintenance onboard ships.* ClassNK, 4-7 Kioi-cho, Chiyoda-ku, Tokyo, Japan. |  |  |  |  |  |  |  |
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| 1. Flanagan G.T.H. (latest edition). *Marine Boilers* (3rd Ed.) Butterworth-Heinemann. Oxford, United Kingdom |  |  |  |  |  |  |  |
| 1. Fernandez, E. (latest edition). *Marine Electrical Technology* (7th Ed.). Shroff Publishers & Distributors Pvt. Ltd., Mumbai, India. |  |  |  |  |  |  |  |
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| 1. Jackson, L. (latest edition). *Reed's Instrumentation and Control System (Vol. 10).* Bloomsburry Publishing*,* 50 Bedford Square, London. |  |  |  |  |  |  |  |
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| 1. McGeorge, H. D. (latest edition). *Marine Auxiliary Machinery* (7th Ed.). Butterworth-Heinemann, Oxford, United Kingdom. |  |  |  |  |  |  |  |
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| **Website References (W):** | | | | | | | |
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| 1. <http://viswalab.net/viswalab/viswaweb/fqt.html> |  |  |  |  |  |  |  |

*Note: The above websites are recommended references only.*

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| **Accomplished by** | **:** |  |  | **Date** | **:** |  |
|  |  | Name and Signature of  MTI’s Authorized Representative |  |  |  |  |

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| **Table Top Evaluator’s Comments:** | | | | | | |
|  |  |  | **Date of Evaluation** |  |  |  |
|  | **Table Top Evaluator’s Name & Signature** |  |  |  |  |  |
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