AD NO.: 04aa-01

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**REPUBLIC OF THE PHILIPPINES**

**DEPARTMENT OF TRANSPORTATION**

**MARITIME INDUSTRY AUTHORITY**

AD NO.: 05aa-01

Initial Issue Date: 07-19-2022

Revision Date: 08-16-2023

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

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| **Training Course:** | Advanced Training for Service on Ships Subject to the IGF Code |
| **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** |
| --- | --- | --- | --- | --- |
| **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 related to:
* Bunkering for ships subject to the IGF Code
* Firefighting on LNG
* Precautions before entering hazardous spaces
 |  |  |  |  |  |  |  |
| 1. Sample Safety Data Sheets:
* Liquified Natural Gas (Methane)
* Liquified Petroleum Gas (Propane and Butane)
* Compressed Natural Gas (Methane)
 |  |  |  |  |  |  |  |
| 1. Exercise Sheets
2. Use information provided in the SDS in handling fuels subject to the IGF Code
3. Operate marine power plant
4. Operate and monitor fuel-handling equipment and instrumentation on board ships subject to the IGF Code
5. Operate gas vaporization and gas heaters
6. Apply procedures in taking fuel tanks in and out of service
7. Perform risk assessment
8. Analyze and recommend improvements based on the result of existing safety plan analysis
9. Calibrate gas detector
10. Communicate clearly and concisely all matters related to bunker operations
11. Operate and monitor bunkering systems
12. Calculate the required bunker quantity
13. Apply principles of safe management of bunkering and other IGF Code fuel- related operations concurrent with other onboard operations, both in port and at sea
14. Use IGF Code and related documents in handling and managing fuel systems
15. Demonstrate different safety equipment and protective devices
16. Respond to fire emergency situations
 |  |  |  |  |  |  |  |
| **IMO References (R):***MTIs may use additional references as deemed necessary to meet the intended learning outcomes of this training course.* |
| 1. International Convention on Standards of Training, Certification and Watchkeeping for Seafarers (STCW), 1978, as amended
 |  |  |  |  |  |  |  |
| 1. International Convention for the Safety of Life at Sea, 1974 (SOLAS 1974), as amended
 |  |  |  |  |  |  |  |
| 1. International Convention for the Prevention of Pollution from Ships (MARPOL), Consolidated edition 2011
 |  |  |  |  |  |  |  |
| 1. MFAG Medical First Aid Guide for Use in Accidents Involving Dangerous Goods (IMO-251E). (Now as supplement to the International Maritime Dangerous Goods Code (IMDG code))
 |  |  |  |  |  |  |  |
| 1. International Code of Safety for Ships Using Gases or Other Low-Flashpoint Fuels (IGF Code)
 |  |  |  |  |  |  |  |
| 1. International Safety Management Code (ISM Code)
 |  |  |  |  |  |  |  |
| **Bibliography (B):***The training provider may choose books from bibliographic list or use other or additional references provided it has similar content to the latest edition and addresses the achievement of all intended learning outcomes. Electronic publications may be accepted as alternatives to printed copies of the latest editions and must be sourced from authorized publishers.* |
| 1. DNVGL Standard ST0026 (latest edition). *Competence related to the on-board use of LNG as fuel.*
 |  |  |  |  |  |  |  |
| 1. DNVGL Recommended Practice DNVGL-RP-G105 (latest edition). *Development and operation of liquefied natural gas bunkering facilities*.
 |  |  |  |  |  |  |  |
| 1. European Maritime Safety Agency (EMSA) (latest edition). *Guidance on LNG Bunkering to Port Authorities and Administrations.*
 |  |  |  |  |  |  |  |
| 1. Society for Gas as a Marine Fuel (latest edition). *Gas as a marine fuel contractual guideline. Quantity and Quality.* London
 |  |  |  |  |  |  |  |
| 1. SGMF (latest edition). *Gas as a marine fuel an introductory guide*. Version 2.1
 |  |  |  |  |  |  |  |
| 1. SGMF (latest edition). *Gas as a marine fuel safety guideline. Bunkering.*
 |  |  |  |  |  |  |  |
| 1. SGMF (latest edition). Gas as a marine fuel Bunkering of ships with Liquefied Natural Gas competency guidelines.
 |  |  |  |  |  |  |  |
| 1. International Electrotechnical Commission. (latest edition). *Explosive atmospheres – Part 17: Electrical installations inspection and maintenance*. 5th edition
 |  |  |  |  |  |  |  |
| 1. ISO 28460 (latest edition). *Petroleum and natural gas industries Installation and equipment for liquefied natural gas Ship-to-shore interface and port operations.*
 |  |  |  |  |  |  |  |
| 1. Witherby Seamanship International (latest edition). *LNG Operational Practice.* 2nd edition
 |  |  |  |  |  |  |  |
| 1. Society of International Gas Tanker & Terminal Operators Limited. Bermuda Guidelines for Hazard Analysis as an Aid to Management of Safe Operations (latest edition). *ESD Arrangements & Linked Ship Shore System for Liquefied Gas Carriers.* Witherby Seamanship International, UK
 |  |  |  |  |  |  |  |
| 1. Internation Chamber of Shipping & Oil Companies International Marine Forum & International Association of Ports and Harbors (latest edition). International Safety Guide for Oil Tankers and Terminals (ISGOTT). Witherby Seamanship International, Livingston West Lothian, United Kingdom. 6th Edition
 |  |  |  |  |  |  |  |

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| **Accomplished by** | **:** |  |  | **Date** | **:** |  |
|  |  | Name and Signature ofMTI’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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| **Inspector’s Comments:** |
|  |  |  | **Date of Inspection** |  |  |  |
|  | **Inspector’s Name & Signature** |  |  |  |  |  |
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