AD NO.: 04y-00

Initial Issue Date: 09-14-2023

Revision Date: 00



**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:** | Basic 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** |
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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. Posters  * Fuel leak and monitoring detection |  |  |  |  |  |  |  |
| 1. Charts/Diagrams of Ships subject to the IGF code:  * Fire Control Plan * Emergency Plan * LNG Bunkering Checklist |  |  |  |  |  |  |  |
| 1. Training Videos about the following:  * Bunkering for ships subject to the IGF Code * Firefighting gas and other low flashpoint fuels with emphasis on LNG fuel as a source of fire * Precautions before entering hazardous spaces |  |  |  |  |  |  |  |
| 1. Sample of the following:  * Work Permit * LNG bunkering checklist * Safety Data Sheets (Liquefied Natural Gas, Liquefied Petroleum Gas and Compressed Natural Gas) |  |  |  |  |  |  |  |
| 1. Drawings or other means of demonstration of ship installation of systems for propulsion machinery, auxiliary power generation machinery and/or other proposed machinery using gas or low-flashpoint fuel as fuel |  |  |  |  |  |  |  |
| 1. Exercise sheets   ***For simulated exercises:***   1. Communicating in a simulated bunkering 2. Identifying and executing actions to prevent hazards 3. Applying actions to be taken in a simulated fire emergency situation 4. Responding to a simulated emergency shutdown 5. Responding to a simulated leakage/spillage/venting of fuels   ***For practical exercises:***   1. Performing gas testing using different types of gas measuring instrument 2. Using appropriate safety equipment and protective devices including breathing apparatus, resuscitators, and rescue and escape equipment 3. Extinguishing fire involving gases or other low flashpoint fuels in a given scenario |  |  |  |  |  |  |  |
| **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, latest edition |  |  |  |  |  |  |  |
| 1. International Convention for the Safety of Life at Sea, 1974 (SOLAS 1974) as amended, latest edition |  |  |  |  |  |  |  |
| 1. International Convention for the Prevention of Pollution from Ships (MARPOL), latest edition |  |  |  |  |  |  |  |
| 1. International Code for Fire Safety Systems (FSS Code) |  |  |  |  |  |  |  |
| 1. International Code of Safety for Ships Using Gases or Other Low-Flashpoint Fuels (IGF Code) |  |  |  |  |  |  |  |
| 1. International Safety Management Code (ISM Code), latest edition |  |  |  |  |  |  |  |
| 1. Medical First Aid Guide for Use in Accidents Involving Dangerous Goods (MFAG), latest 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. ABS Bunkering of Liquefied Natural Gas-fueled Marine Vessels in North America |  |  |  |  |  |  |  |
| 1. ABSLNG Bunkering: Technical and Operational Advisory |  |  |  |  |  |  |  |
| 1. Bureau Veritas LNG AS FUEL Future-Proof your ship |  |  |  |  |  |  |  |
| 1. DNV GL Standard ST0026 for Competence related to the on-board use of LNG as fuel |  |  |  |  |  |  |  |
| 1. DNV GL. (2014). LNG as ship fuel - A focus on the current and future use of LNG as fuel in shipping |  |  |  |  |  |  |  |
| 1. DNV GL. (2014). Safety, Security Assessment & Operational Planning for LNG Fueled Ferries LNG. |  |  |  |  |  |  |  |
| 1. DNV GL. (2015). Special Equipment and Systems - Additional Class Gas Bunker Vessels |  |  |  |  |  |  |  |
| 1. European Maritime Safety Agency (EMSA) Guidance on LNG Bunkering to Port Authorities and Administrations |  |  |  |  |  |  |  |
| 1. Gas as a marine fuel Bunkering of ships with Liquefied Natural Gas competency guidelines. (May 2016) Version 1.0 |  |  |  |  |  |  |  |
| 1. Gas a marine fuel - an introductory guide. Version2.1 |  |  |  |  |  |  |  |
| 1. Gas as a marine fuel - safety guidelines, Bunkering. Version 2.0 |  |  |  |  |  |  |  |
| 1. Gas as a Marine fuel - Recommendation of Controlled Zones during LNG bunkering. Version 1.0 |  |  |  |  |  |  |  |
| 1. IACS LNG Bunkering Guidelines |  |  |  |  |  |  |  |
| 1. LNG Ship Fuel Safety Advisory Group. (2015). Standards and Guidelines for Natural Gas Fuelled Ship Projects. SIGTTO |  |  |  |  |  |  |  |
| 1. MCA Code of Safe Working Practices for Merchant Seamen |  |  |  |  |  |  |  |
| 1. Oil Companies International Marine Forum. (2006). International Safety Guide for Oil Tankers and Terminals 5th Edition. Witherby |  |  |  |  |  |  |  |
| 1. Oil Companies International Marine Forum. (2013). Ship to Ship Transfer Guide for Petroleum, Chemicals and Liquefied Gases. Witherby Seamanship International |  |  |  |  |  |  |  |
| 1. SIGTTO Guidelines – Personal Handbook |  |  |  |  |  |  |  |
| 1. Skjervheim, A., et al. (2008). Maritime Gas Fuel Logistics-Developing LNG as a clean fuel for ships in the Baltic and North Seas. Bergen: Bundesministerium für Wirtschaft und Technologi |  |  |  |  |  |  |  |
| 1. Society of International Gas Tanker and Terminal Operators. (2011). LNG Ship to Ship Transfer Guidelines First Edition 2011 (SIGTTO). Edinburgh: Witherby. |  |  |  |  |  |  |  |
| 1. The Danish Maritime Authority. (2012). North European LNG Infrastructure Project - A feasibility study for an LNG filling station infrastructure and test of recommendations. Copenhagen |  |  |  |  |  |  |  |
| 1. International Chamber of Shipping. (1995). Tanker Safety Guide Liquefied (2nd Edition). West Yorkshire: Edward Mortimer Ltd. |  |  |  |  |  |  |  |
| 1. USCG Guidelines for liquefied natural gas fuel transfer operations and training of personnel on vessel using natural gas as fuel |  |  |  |  |  |  |  |

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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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|  | **Inspector’s Name & Signature** |  |  |  |  |  |
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