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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:** | Refresher Course on Advanced Training for Chemical Tanker Cargo Operations | |
| **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 about the following:  * Operation and Maintenance of Inert Gas Systems * Over and Under Pressurization of Tank * Prevention and Reaction to Marine Oil Spills * Risk assessment, cold & hot work permit * The International Safety Management Code * MARPOL Annex II |  |  |  |  |  |  |  |
| 1. Pictures/Charts/Diagrams  * IMO Symbol * Cargo Compatibility Chart * Flammability Diagram * Chemical compatibility chart |  |  |  |  |  |  |  |
| 1. Various Ships Plan  * Gauging Systems and Alarms * Cargo Heating Systems * Tank cleaning, Gas-freeing, and Inerting Systems * Ballast System * Cargo Area Venting and Accommodation Ventilation * Slop Arrangements * Vapour Recovery Systems * Cargo-related Electrical and Electronic Control System |  |  |  |  |  |  |  |
| 1. Various Operational Checklists  * Loading and unloading * Ballasting and De-ballasting * Tank Cleaning * Inerting and gas composition * Gas freeing * Ship to ship transfer * Flammability and Explosion * Electrical & Isolation safety * Ship emergency response plans * Cargo operations emergency shutdown |  |  |  |  |  |  |  |
| 1. Manual/s  * Procedure and Arrangement Manual * Marine Environment Protection Committee (MEPC) Manual * Plan Maintenance System Manual * Safety Management System Manual |  |  |  |  |  |  |  |
| 1. Exercise Sheet 2. Evaluate the procedure used in preventing pollution of atmosphere and environment 3. Conduct risk assessment in a given task 4. Perform cargo calculations 5. Chemical cargo-related operations 6. Assess the operation of monitoring and safety systems including emergency shutdown during cargo operation 7. Manage and supervise personnel in the performance of cargo operation duties 8. Analyze the effect of bulk liquid cargoes on trim, stability and structural integrity 9. Calibration of gas-detection systems, instrument and equipment 10. Use of IBC Code |  |  |  |  |  |  |  |
| **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, 1978, as amended |  |  |  |  |  |  |  |
| 1. International Convention for the Safety of Life at Sea (SOLAS), as amended |  |  |  |  |  |  |  |
| 1. Medical First Aid Guide for Use in Accidents Involving Dangerous Goods (MFAG) (IMO-117E) International Safety Management Code& Revised |  |  |  |  |  |  |  |
| 1. Guidelines on the Implementation of the ISM Code, Latest Edition |  |  |  |  |  |  |  |
| 1. International Code for Fire Safety Systems, (latest edition) |  |  |  |  |  |  |  |
| 1. International Bulk Chemical (IBC) Code, International Code for the Construction and Equipment of Ships Carrying Dangerous Chemicals in Bulk (latest edition) |  |  |  |  |  |  |  |
| 1. International Chamber of Shipping (ICS) Tankers Safety Guide (Chemicals) (latest edition) |  |  |  |  |  |  |  |
| 1. International Convention for the Prevention of Maritime Pollution (MARPOL) 73/78 Consolidated 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. Oil Companies International Marine Forum (OCIMF). (2012). Bulk Liquid Chemical Handling Guide for Plants, Terminals, Storage and Distribution Depots: (BLCH) Guide. Livingston, Scotland UK. (Latest Edition) |  |  |  |  |  |  |  |
| 1. Maritime and Coast Guard Agency. (2015). Code of Safe Working Practices for Merchant Seafarers (COSWP) Southampton SO15 1EG United Kingdom. (Latest Edition) |  |  |  |  |  |  |  |
| 1. Oil Companies International Marine Forum (OCIMF) SIGTTO. (2013) Ship to Ship Transfer Guide for Petroleum, Chemicals and Liquefied Gases. London SW1H 9BU England (Latest Edition) |  |  |  |  |  |  |  |
| 1. Oil Companies International Marine Forum (OCIMF) (2017). Tanker Management Self-Assessment 3 (TMSA3) – A Best Practice Guide Livingston, Scotland UK. (Latest Edition) |  |  |  |  |  |  |  |
| 1. International Chamber of Shippong (2021). Tanker Safety Guide-Chemical, 5th Edition. Walsingham House 35 Seething Lane London EC3N 4AH. (Latest Edition). |  |  |  |  |  |  |  |

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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 Comments:** | | | | | | |
|  |  |  | **Date of Inspection** |  |  |  |
|  | **Inspector’s Name & Signature** |  |  |  |  |  |
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