AD NO.: 04n-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:** | Passenger Safety, Cargo Safety and Hull Integrity Training | |
| **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. Videos such as:  * Herald of Free Enterprise * MV Estonia * MV Sewol |  |  |  |  |  |  |  |
| 1. IMO-approved symbols and safety signs and symbols |  |  |  |  |  |  |  |
| 1. Passenger Ship Plans:  * Emergency Plan * General Arrangement Plan * Damage Control Plan * Cargo Hold Plan * Capacity Plan |  |  |  |  |  |  |  |
| 1. Manuals/Code  * IMDG Code * Code of Safe Practice for Cargo Stowage and Securing * Cargo Securing Manual for a RO-RO Passenger Ship * Sample of Damage Stability Booklet |  |  |  |  |  |  |  |
| 1. Ship Model |  |  |  |  |  |  |  |
| 1. Exercise Sheets 2. Loading, securing, and discharging vehicles 3. Lowering and hoisting ramp in a safe manner 4. Setting up and stowing a retractable vehicle deck 5. Embarking and disembarking passengers with special attention to disabled persons and persons needing assistance 6. Applying special safeguards, procedures, and requirements regarding the carriage of dangerous goods on board RO-RO passenger ships 7. Applying the provisions of the Code of the Safe Practice for Cargo Stowage and Securing to the vehicles, rail cards, and other cargo transport units carried 8. Securing vehicles, rail cards, and other in transport units using cargo-securing equipment and materials 9. Calculating metacentric height (GM) using a given formula for loaded and ballast conditions 10. Calculating the load factors for deck cargoes 11. Calculating the impact of ballast and fuel transfers on stability, trim, and hull stresses 12. Opening, closing, and securing bow door, stern door, side doors, and ramps 13. Monitoring the opening, closing, and securing of bow door, stern door, side doors, and ramps by correct operation of the associated control systems 14. Opening and closing of watertight doors 15. Checking the condition of the sealing of doors and ramps 16. Testing the functionality of the door’s limit switch and corresponding light 17. Monitoring RO-RO deck atmosphere using portable oxygen analyzer of multi-gas detector 18. Ventilating the RO-RO spaces |  |  |  |  |  |  |  |
| 1. Hand-outs |  |  |  |  |  |  |  |
| **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 Maritime Dangerous Goods (IMDG Code), (latest edition) |  |  |  |  |  |  |  |
| 1. International Maritime Organization. Code of Safe Practice for Cargo Stowage and Securing (latest edition) |  |  |  |  |  |  |  |
| 1. IMO Resolution A.489 (XII). Safe stowage and securing of cargo units and other entities in ships other than cellular contained ships |  |  |  |  |  |  |  |
| 1. IMO Resolution A.533 (13). Elements to be taken into account when considering the safe stowage and securing of cargo units and vehicles in ships |  |  |  |  |  |  |  |
| 1. International Maritime Organization, Guidelines for Damage Control Plans and Information to the Master, MSC1/Circ.1245, 29 October 2007 |  |  |  |  |  |  |  |
| 1. International Maritime Organization, Amendments to Section 3 of the Guidelines for Damage Control Plans and Information to the Master, MSC1/Circ.1570, 09 June 2017 |  |  |  |  |  |  |  |
| 1. IMO Resolution A.581 (14). Guidelines for securing arrangements for the transport of road vehicles on Ro-Ro ships |  |  |  |  |  |  |  |
| 1. International Maritime Organization, Amendments to Guidelines for securing arrangements for the transport of road vehicles on Ro-Ro ships - MSC/Cir. 1355 (14), 30 June 2010 |  |  |  |  |  |  |  |
| 1. International Maritime Organization. Revised Guidelines on Evacuation analysis for new and existing Passenger Ships - MSC.1/Circ.1533 - 6 June 2016 |  |  |  |  |  |  |  |
| 1. International Maritime Organization, Passenger Safety Damage stability of cruise passenger ships: Enhanced damage control plans MSC 93/6/12,11 March 2014 |  |  |  |  |  |  |  |
| 1. IMO Resolution MSC.429 (98) adopted on 09 June 2017 |  |  |  |  |  |  |  |
| 1. Maritime Safety Committee - Design Guideline and operational recommendation for ventilation systems in RO-RO spaces – MSC/Circ.729 |  |  |  |  |  |  |  |
| 1. International Code in Intact Stability, 2009 edition |  |  |  |  |  |  |  |
| 1. International Maritime Organization – Annex 18, Resolution 362(92) adopted June 14 2013, Revised Recommendation on a standard method for evaluating Cross Flooding arrangements |  |  |  |  |  |  |  |
| 1. Guidelines for watertight doors for passenger ship MSC Cir.1380 |  |  |  |  |  |  |  |
| **Bibliography (B):**  *The MTIs may choose books from the mentioned 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. Crises and Media Seminar. (latest edition*).*Seminar Report on Crises and the Media No. 2*.* Easingwold: Emergency Planning College. |  |  |  |  |  |  |  |
| 1. Emergency Planning College. *(*latest edition*).*A Digest of Some Well Known Disasters No.8*.* Easingwold: Emergency Planning College. |  |  |  |  |  |  |  |
| 1. Emergency Planning College. *(*latest edition*).* Lessons Learned from Crowd-related Disasters No.4*.* Easingwold: Emergency Planning College. |  |  |  |  |  |  |  |
| 1. Emergency Planning College. *(*latest edition*).*Conference: Problems Associated with Large Scale Evacuations No. 5*.* Easingwold: Home Office Emergency Planning College. |  |  |  |  |  |  |  |
| 1. Emergency Planning College. *(*latest edition*).*Crisis in a Complex Society No.7*.* Easingwold: Home Office Emergency Planning College. |  |  |  |  |  |  |  |
| 1. Flin, R. H., *(*latest edition*).*Sitting in the Hot Seat: Leaders and Teams for Critical Incident Management*.* Chichester: Wiley. |  |  |  |  |  |  |  |
| 1. Scanlon, J. *(*latest edition*).*Disaster Preparedness: Some Myths and Misconceptions No. 6*.* Easingwold: Emergency Planning College |  |  |  |  |  |  |  |
| 1. Rhodes, M.A Ship Stability for Mates/Master Seamanship International Ltd. Anvil Publishing, Inc. (latest edition) |  |  |  |  |  |  |  |
| 1. Guidelines for damage damage control plans InspectieLeefomgevingen Transport Ministerie van InfrastructururenMillieu, Netherlands, Version1 (latest edition) |  |  |  |  |  |  |  |
| 1. Bureau Veritas, Safety of RO-RO Passenger and Cruise Ships, (latest edition) |  |  |  |  |  |  |  |
| 1. Turan, O Crisis Management – University of Strathclyde, Engineering (latest edition) |  |  |  |  |  |  |  |
| 1. Carl T. F. Ross, SimonStothard, and Andrew Slaney – Damage Stabiity Characteristics of Model RO/RO Ferries – Marine Technology (latest edition) |  |  |  |  |  |  |  |
| 1. J Gullaksen, A Practical Guide to Damage Stability Assessment - Regulation of Damage Stability, Witherby Seamanship- Livingston UK (latest edition) |  |  |  |  |  |  |  |
| 1. Eric Vanem/ Rolf Skjong Collision and Grounding of Passenger Ships – Risk Assessment and Emergency Evacuations DNV Research (latest edition) |  |  |  |  |  |  |  |
| 1. Georgious, Vavourakis, Deterministic framework for damage stability, TrainMos II (latest edition) |  |  |  |  |  |  |  |
| 1. Eric Tupper, Introduction to Naval Architecture, (latest edition), Butterworth - Heinemann, imprint of Elsevier Science - Oxford |  |  |  |  |  |  |  |
| 1. Inspectie Leefomgevingen Transport, 574 - The calculation procedure to assess the survivability characteristics to existing RO-RO passenger ships when using simplified method (latest edition) |  |  |  |  |  |  |  |
| 1. Maciej, Pawlowski Survival Criteria for Passenger Roll-On/Roll-Off Vessels and Survival Time, Marine Technology (latest edition) |  |  |  |  |  |  |  |
| 1. Prof. Dracos & Prof. Apostolos Papanikolaou, Stockholm Agreement – Past, Present & Future (Part I), he Ship Stability Research Centre, Department of Ship and Marine Technology, Glasgow, UK National Technical University of Athens, Ship Design Laboratory, Greece (latest edition) |  |  |  |  |  |  |  |
| 1. Robert Bronsart - Ship Safety - Damage Stability Roll Motions in Waves - University of Rostock (latest edition) |  |  |  |  |  |  |  |
| 1. Robert D. Tagg - Damage Survivability for Cargo Ships, SNAME Transaction (latest edition) |  |  |  |  |  |  |  |
| 1. UK P&I Clubs- Car Matters - *Car Carriers, RO-RO and Ro-Pax Ship Safety – A Guide for Crew* (latest edition) |  |  |  |  |  |  |  |
| 1. RoberTagg- Proceedings of the 14thInternational Ship Stability Workshop Comparison of survivability between SOLAS 90/95 and SOLAS 2009ships - A retrospective view 10 years on from project HARDER |  |  |  |  |  |  |  |
| 1. Dr. C. Barass- Ship design and performance for masters and mates, Elsevier . Butterworht Heineman (latest edition) |  |  |  |  |  |  |  |
| 1. Henrik Eichsen – Small Ro/Pax Vessel Stability Study (latest edition) |  |  |  |  |  |  |  |
| 1. *MACGREOGOR-Technical Information RORO-Quarter Ramp/Doors* (latest edition) |  |  |  |  |  |  |  |
| **Website Reference:** | | | | | | | |
| 1. <https://en.wikipedia.org/wiki/Sinking_of_MV_Sewol> |  |  |  |  |  |  |  |
| 1. [www.cnn.com/2017/03/22/asia/south-korea-sewol-ferry/](http://www.cnn.com/2017/03/22/asia/south-korea-sewol-ferry/) |  |  |  |  |  |  |  |
| 1. <https://www.youtube.com/watch?v=0D7ztCzaOAE> |  |  |  |  |  |  |  |
| 1. <https://issuu.com/cargotec/docs/shortsea_roro_vessels_2017-low-res_> |  |  |  |  |  |  |  |
| 1. <https://www.youtube.com/watch?v=6nnBznfcw5M> |  |  |  |  |  |  |  |
| 1. <https://www.youtube.com/watch?v=Vymw5oq8S6k> |  |  |  |  |  |  |  |
| 1. <https://www.youtube.com/watch?v=cShqbTvn1rg> |  |  |  |  |  |  |  |
| 1. <https://www.youtube.com/watch?v=keK3l_Qfehk> |  |  |  |  |  |  |  |
| 1. <https://www.youtube.com/watch?v=mhLC1x5dap8> |  |  |  |  |  |  |  |
| 1. <https://www.youtube.com/watch?v=1mhYiNci6Kw> |  |  |  |  |  |  |  |
| 1. <https://www.youtube.com/watch?v=0D7ztCzaOAE> |  |  |  |  |  |  |  |
| 1. <https://www.youtube.com/watch?v=ua_TeAera_Y> |  |  |  |  |  |  |  |
| 1. [http://www.gard.no/web/updates/content/51837/ferries-RO- ROpassenger-vessels-](http://www.gard.no/web/updates/content/51837/ferries-RO-%09ROpassenger-vessels-) |  |  |  |  |  |  |  |
| 1. <http://www.macgregor.com/englobal/macgregor/products/Ramps/Sternramp/Pages/default.aspx> |  |  |  |  |  |  |  |
| *Note: The Website Reference (W) is recommended reference 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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| **Inspector’s Comments:** | | | | | | |
|  |  |  | **Date of Inspection** |  |  |  |
|  | **Inspector’s Name & Signature** |  |  |  |  |  |
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