

Part B

Course Outline

MTI shall ensure that all trainees shall be given sufficient time to learn, understand and perform the practical training component of this course. It is understood that the number of hours for demonstration/practical work specified in the table below is indicative and allocated per group. Training hours shall be extended depending on trainees' successful acquisition of the required competence.

Topics	Time Allotment (in hours)	
	Theoretical	Demonstration/ Practical Work
Course Introduction	0.5	-
<i>Competence: Plan and ensure safe loading, stowage, securing, care during the voyage and unloading of cargoes</i>		
1. International regulations, codes, and standards concerning the safe handling, stowage, securing and transport of cargoes	1.5	-
2. The effect on trim and stability of cargoes and cargo operations	2.5	-
3. Stowage and securing of cargoes on board ships	2.0	-
4. Loading and unloading operations	2.0	-
5. General knowledge of tankers and tanker operations	2.0	-
6. Operational and design limitations of bulk carriers	2.0	-
7. Shipboard data related to loading/unloading, and care of cargoes, and ballasting with the use of stability and trim diagrams and stress-calculating equipment	2.5	4.0
8. Procedures for safe cargo handling	2.0	-
9. Effective communications and improving working relationship between ship and terminal personnel	1.0	-
<i>Competence: Assess reported defects and damage to cargo spaces, hatch covers and ballast tanks and take appropriate action</i>		
10. Limitation on strength of the vital constructional parts of a standard bulk carrier	1.5	-
11. Detrimental effects on bulk carriers of corrosion, fatigue and inadequate cargo handling	1.0	2.5

Topics	Time Allotment (in hours)	
	Theoretical	Demonstration/ Practical Work
<i>Competence: Carriage of dangerous goods</i>		
12. International regulations, standards, codes and recommendations on the carriage of dangerous cargoes	2.0	-
13. Carriage of dangerous, hazardous and harmful cargoes	1.0	-
Sub-total	23.5	6.5
Total Training Hours	30.0	

Assessment		
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Notes:

1. *It is the responsibility of the MTI to determine the number of hours needed for the conduct of assessment both theoretical and practical as maybe applicable taking into account the number of trainees, number of assessors, number of equipment, vis-à-vis the number of test items for theoretical and the number of exercises for practical assessment.*
2. *Time allotted in the practical demonstration shall be construed as the time allotted for 24 trainees, provided that all trainees have demonstrated the task or scenario specific for management level responsibility, and if the practical exercises are conducted by group, the rotation of roles is required.*