

Table of Specifications (TOS)

Topics (Knowledge Dimension)	Time Allotment (hrs.)	% of Teaching Time	Thinking Skills (Learning Process Dimension)					No. of Test Items	
			Remember	Understand	Apply	Analyze	Evaluate		Create
Course Introduction	0.5	1.67		1					1
1. International regulations, codes, and standards concerning the safe handling, stowage, securing and transport of cargoes	1.5	5.00		3					3
2. The effect on trim and stability of cargoes and cargo operations	2.5	8.33		1	3				4
3. Stowage and securing of cargoes on-board ship	2.0	6.67				3			3
4. Loading and unloading operations	2.0	6.67		3					3
5. General knowledge of tankers and tanker operations	2.0	6.67		3					3
6. Operational and design limitations of bulk carriers	2.0	6.67		3					3
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	6.5	21.67		3				8	11
8. Procedures for safe cargo handling	2.0	6.67		3					3
9. Effective communications and improving working relationship between ship and terminal personnel	1.0	3.33		2					2

Topics (Knowledge Dimension)	Time Allotment (hrs.)	% of Teaching Time	Thinking Skills (Learning Process Dimension)					No. of Test Items	
			Remember	Understand	Apply	Analyze	Evaluate		Create
10. Vital constructional parts of a standard bulk carrier	1.5	5.00				3			3
11. Detrimental effects on bulk carriers of corrosion, fatigue and inadequate cargo handling	3.5	11.67					2	4	6
12. International regulations, standards, codes and recommendations on the carriage of dangerous cargoes	2.0	6.67		3					3
13. Carriage of dangerous, hazardous and harmful cargoes	1.0	3.33		2					2
TOTAL	30.0	100	0	27	3	6	2	12	50

Notes:

1. *The MTI may add the required number of test items for Multiple Choice of Questions.*
2. *For Essay type of test, the MTI should provide rubrics.*