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	0.44		1					1
1. Design features, and operative mechanism of marine diesel engine, marine steam turbine, marine gas turbine, and marine steam boiler	4.0	3.49		2					2
2. Planning the start-up and shut down of main and auxiliary machinery, including associated system	19.0	16.60		5	3				8
3. Planning of efficient operation and performance assessment of propulsion plant and auxiliary machinery	6.0	5.24		1	2				3
4. Start up and shut down main propulsion and auxiliary machinery, including associated systems	30.0	26.20		7	5		1		13
5. Operating Limits of Propulsion Plant	5.0	4.37		1	1				2
6. The efficient operation, surveillance, performance assessment and maintaining safety of propulsion plant and auxiliary machinery	22.0	19.21		5	2		2		9

Topics (Knowledge Dimension)	Time Allotment (hrs.)	% of Teaching Time	Thinking Skills (Learning Process Dimension)						No. of Test Items
			Remember	Understand	Apply	Analyze	Evaluate	Create	
7. Functions and Mechanism of Automatic Control for Main Engine	7.0	6.11		1	2				3
8. Functions and Mechanism of Automatic Control for Auxiliary Machinery	7.0	6.11		1	2				3
9. Marine Steam Turbine	9.0	7.86		1	1	2			4
10. Operation and maintenance of machinery, including pumps and piping system	5.0	4.37		1	1				2
TOTAL	**114.5**	**100%**		**26**	**19**	**2**	**3**		**50**

Notes:

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