

Part B

Course Outline

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

Topics	Time Allotment (in hours)	
	Theoretical	Practical
Course Introduction	0.5	
<i>Competence: Manage the operation of propulsion plant machinery</i>		
1. Design features of marine steam turbine	0.5	
2. Operative mechanism of marine steam turbine	1.0	
<i>Competence: Plan and schedule operations</i> <i>Competence: Operation, surveillance, performance assessment and maintaining safety of propulsion plant and auxiliary machinery</i>		
3. Thermodynamics and heat transmission in marine steam turbine propulsion plant	1.5	-
4. Mechanics and hydromechanics	1.0	-
5. Propulsive characteristic of marine steam turbine, including speed, output and fuel consumption	1.5	-
6. Heat cycle, thermal efficiency and heat balance of marine steam turbine	1.5	-
7. Operating limits of marine steam turbine propulsion plant	2.0	2.0
8. Function and mechanism of automatic control for marine steam turbine propulsion plant	1.5	-

Topics	Time Allotment (in hours)	
	Theoretical	Practical
9. Operation of marine steam turbine plant	3.5	6.0
10. Plant up and Plant down of main propulsion and auxiliary machinery	0.5	6.0
11. Surveillance, performance assessment and maintaining safety of marine steam turbine propulsion plant	1.0	2.0
Sub-total	16.0	16.0
Total Training Hours	32.0	
Assessment Hours		

Note:

It is the responsibility of the MTI to determine the number of hours needed for the conduct of assessment both written and practical as maybe applicable taking into account the number of trainees, numbers of assessors, number of equipment, vis-à-vis the number of test items for written and the number of exercises for practical assessment.