Assessment Plan

STCW Code: *Section A-III/2*	Mandatory minimum requirements for certification of chief engineer officers and second engineer officers on ship powered by main propulsion machinery of 3,000 kW propulsion power or more	Table A: Table A-III/2	
Approved Training Program	Management Level Course for Marine Engineer Officer (Function 3)	Instructor:	Date Prepared:
Resources Needed		Assessor:	Approved by:

Topics	Written Assessment				Practical Assessment		
					Assessment Task		***Grading Scheme***
	No. of Test Items	**Assessment Method**	**Assessment Period**	**Grading Scheme**	.1 plan maintenance activities, including statutory and class verifications of main propulsion, steam system, generator and distribution system, and auxiliary machineries in accordance with ship's Planned Maintenance System (PMS) and safe working practices in a given scenario. .2 plan repair activities of the following in accordance with safe working practices in a given scenario: • main propulsion, • steam system, • generator and distribution system, • auxiliary machineries, • statutory and class verifications .3 manage safe and effective maintenance and repair procedures of the following in accordance with operational manual and technical specifications in a given scenario. • main propulsion • steam system • generator and distribution systems	.5 detect machinery malfunctions by comparing the actual operating condition against the normal operating condition and other methods to locate faults, in accordance with recommended practices and procedures in a given scenario .6 decide on appropriate actions to take to correct faults and prevent damage in accordance with best practices and established procedures based on the malfunctions detected and faults located .7 decide the necessary adjustment of the equipment in accordance with recommended operating specifications and limitations in a given scenario .8 decide on the appropriate maintenance and repair of machineries and equipment based on the results of non-destructive examination	

					• auxiliary machineries .4 monitor the adherence to safe working practices of any particular engine room maintenance or repair activity in accordance with legislative requirements, codes of practice, permit to work, and environmental concerns in a given scenario.		
Course Introduction		Multiple Choice /Essay	Written Exam must be taken before the practical assessment and administered at the end of training period	Obtain at least 70% correct answers	**Assessment Criteria**		
1. Safe Working Practices	8				• Maintenance activities are correctly planned and carried out in accordance with technical, legislative, safety and procedural specification • Appropriate plans, specifications, materials and equipment are available for maintenance and repair • Action taken leads to the restoration of the plant by the most suitable method • Working practices are in accordance with legislative requirements, codes of practice, permit to work and environmental concerns	• The methods of comparing actual operating conditions are in accordance with recommended practices and procedures • Actions and decisions are in accordance with recommended operating specifications and limitations Working practices are in accordance with legislative requirements, codes of practice, permit to work and environmental concerns	Performance of required tasks based on assessment criteria using a checklist
2. Marine engineering practice	5						
3. Manage Safe and Effective Maintenance and Repair Procedures	9						
4. Planning Maintenance, Including Statutory and Class Verifications	2						
5. Planning Repairs	2						
6. Detection of Machinery Malfunctions, Location of Faults and Action to Prevent Damage	10						
7. Inspection and Adjustment of Equipment	8						
8. Non-Destructive Examination	6						
TOTAL	**50**						

Note: The MTI has the prerogative to cluster related tasks into one scenario provided that it addresses all expected learning outcomes in the achievement of the competence and can be assessed in accordance with the specified assessment criteria.