Assessment Plan

STCW Code: Section A-III/2	Mandatory minimum requirements for certification of chief engineer officers and second engineer officers on ships 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 Officers (Function 2)	Instructor:	Date Prepared:
Resources Needed:		Assessor:	Approved by:

Topics	**Written Assessment**				**Practical Assessment**		
	No. of Test Items	**Assessment Method**	**Assessment Period**	**Grading Scheme**	***Assessment Task***		**Grading Scheme**
					1. Manage the operation of electrical and electronic equipment and system, and safety devices, in accordance with operating manuals in a given scenario. 2. Manage the operation of the automatic control equipment and safety devices for main engine, generator and distribution system, and steam boiler in accordance with technical specifications in a given scenario. 3. Carry out assessment and adjustment of the automatic control equipment and safety devices for main engine, generator and its distribution system, and steam boiler, based on optimum performance levels in accordance with technical	9. Manage the inspection, troubleshooting, and restoration activities for electrical and electronic control equipment in accordance with technical, legislative, safety, and procedural specifications in a given scenario. 10. Manage the function test of electrical, electronic control equipment and safety devices in accordance with technical, legislative, safety, and procedural specifications in a given scenario. 11. Manage the troubleshooting activities in monitoring systems in accordance with technical, legislative, safety, and procedural specifications in a given scenario.	

					specifications in a given scenario. 4. Manage the operation of control equipment system for electrical motors based on its design features, configurations, and operating manuals in a given scenario. 5. Assess the performance level of control equipment system for electrical motors based on its design features, configurations, and operating manuals in a given scenario. 6. Manage the operation of high-voltage installations in accordance with design features and operating manuals in a given scenario. 7. Manage the operation of hydraulic and pneumatic control equipment in accordance with technical specifications in a given scenario. 8. Assess the performance level of control equipment system for electrical motors based on its design features, configurations, and operating manuals in a given scenario.	12. Plan the maintenance of software in accordance with technical, legislative, safety, and procedural specifications 13. Supervise the maintenance and installation activities for updated software version in accordance with technical, legislative, safety, and procedural specifications	
Course Introduction	-	Multiple Choice Questions	Written Exam must be taken before the practical assessment and administered at the end of training period	Obtain at least 75% mark from written test	***Assessment Criteria***		Performance of required tasks based on Assessment Criteria using a Checklist
1. Marine electro technology, electronics, power electronics, automatic control engineering and safety devices	7				● Management of the operation of equipment and systems is in accordance with operating manuals or technical specifications ● Performance levels are in accordance with technical specifications	● Maintenance activities are correctly planned in accordance with technical, legislative, safety and procedural specifications ● Inspection, testing and troubleshooting of equipment are appropriate	
2. Design features and system configuration of automatic control equipment and safety devices for main engine,	8						

generator and distribution system, and steam boiler							
3. Design features and system configurations of operational control equipment for electrical motors	8						
4. Design features of high-voltage installations	4						
5. Features of hydraulic and pneumatic control equipment	8						
6. Trouble shooting of electrical and electronic equipment	4						
7. Function test of electrical, electronic control equipment and safety devices	4						
8. Troubleshooting of monitoring systems	4						
9. Software version control	3						
Total Number of Items	**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.*