## **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 1)							tor:	Date Prepared:		
Resources Needed:	Assesso							Assessor: Approved by:			
			Written A	ssessment				Practic	al Assessment		
								Assessment	Task		Grading Scheme
Topics		No. of Test Items	Assessment Method	Assessment Period	Grading Scheme	1. Supervise the function test or critical equipm machinery bar general comprequirements instruction ma  2. Plan the startin main diesel en and associated systems in accordance wingeneral comparequirements in given scenario  3. Plan the shutting down of diesel and associated systems in accordance wingeneral comparequirements in given scenario  4. Plan a ship's en efficiency in accordance wingeneral comparequirements in given scenario  4. Plan a ship's en efficiency in accordance wingeneral compared in accordance wingeneral specificiency in accordance wingeneral specificiency in accordance wingeneral specificiency efficier Management in the starting in accordance wingeneral specificier specifi	fall nent and sed on any and nual. ng up of gine d th any engine	6. Manage the preparation of main diesel engine for the start up and make available fuels, lubricants, cooling water, and air in accordance with company requirements in a given scenario.  7. Supervise the checking of the pressures, temperatures, and revolutions during the start-up and warm-up period in accordance with safe working practices and agreed work plans in a given scenario.  8. Conduct surveillance of main diesel	15. Verify the load capacity of main diesel engine and auxiliary machinery using various methods in accordance with technical specifications in a given scenario. 16. Supervise the operation of the main diesel engine and auxiliary machinery to maintain safety in accordance with safe working practices and technical specifications in a given scenario. 17. Supervise the conduct of surveillance and performance check of automatic	23. Manage the carrying out of fuel and ballast operations in accordance with safe working practices so as to prevent pollution of the marine environment in a given scenario.	Scheme

		(SEEMP) in a given	engine and its	control system	
		scenario.	associated	for main engine	
		5. Plan the performance	auxiliary systems	to maintain safe	
		assessment of main	to maintain safe	operating	
		propulsion plant and	operating	conditions in	
		auxiliary machinery in	conditions in	accordance with	
		accordance with	accordance with	manufacturer's	
		company	company	manual in a	
		requirements in a	requirements in a	given scenario.	
		given scenario	given scenario.	18. Supervise the	
		giverioseriane	9. Check the	conduct of	
			performance of	surveillance and	
			main diesel	performance	
			engine and	check of	
			associated	automatic	
			system in	control for	
			accordance with		
				generator	
			bridge orders and	distribution	
			technical	systems, steam	
			specifications in a	boilers, oil	
			given scenario.	purifier,	
			10. Supervise the	refrigeration	
			preparation of the	system, pumping	
			main diesel	and piping	
			engine for the	systems, and	
			shutting and	cargo-handling	
			cooling down	equipment and	
			operation in	deck machinery	
			accordance with	to maintain safe	
			company	operating	
			requirements in a	conditions.	
			given scenario.	19. Check the	
			11. Conduct	operating limits	
			surveillance of	of marine steam	
			the shutting down	turbine	
			of main diesel	propulsion plant	
			engine and its	during start up	
			associated	and warm up	
			auxiliary systems	period in	
			to maintain safe	accordance with	
			operating	technical	
			conditions in	specification and	
			accordance with	agreed work	
			company	plan.	
			requirements in a	20. Analyze the	
			given scenario.	result from the	
			giveri sceriano.	result HOIII the	

						12.Supervise the checking of the condition of the main diesel engine if within the operating limits in a given scenario. 13. Conduct surveillance in checking the efficient operation of main diesel engine and auxiliary machinery in accordance with technical specifications in a given scenario. 14. Assess the performance of main diesel engine and auxiliary machinery in accordance with technical specifications in a given scenario.	checked parameters and take appropriate actions. 21. Conduct surveillance and performance assessment using the gathered data. 22. Analyze the result of surveillance and performance assessment conducted and take appropriate actions in accordance with technical specifications and agreed work plan.		
						a given scenario.			
Course Introduction	11					Assessment (	Criteria		
Design features, and operative mechanism of marine diesel engine, marine steam turbine, marine gas turbine, and marine steam boiler	2	Multiple	Written Exam must be taken before the practical	Obtain at least 75% mark	The planning and preparation of operations is suited to the design parameters of the power	The methods of start-up and of n fuels, lubricants, air are the most Checks of press	naking available cooling water and appropriate	Fuel and ballast operations meet operational	Performance of required tasks based on
Planning the start-up and shut down of main and auxiliary machinery, including associated system	8	Choice Questions	assessment and administere d at the end	from written test	installation and to the requirements of the voyage	and revolutions of and warm-up pe accordance with specifications ar	during the start-up riod are in technical	requirements and are carried out so as to prevent	Assessment Criteria using a Checklist
Planning of efficient     operation and performance     assessment of propulsion	3		of training period			plans		pollution of the marine environment	

plant and auxiliary machinery  4. Start up and shut down main propulsion and auxiliary machinery, including associated systems	13		<ul> <li>Surveillance of main propulsion plant and auxiliary systems is sufficient to maintain safe operating conditions</li> <li>The methods of preparing the shutdown and of supervising the</li> </ul>	
Operating Limits of     Propulsion Plant	2		cooling down of the engine are the most appropriate	
6. The efficient operation, surveillance, performance assessment and maintaining safety of propulsion plant and auxiliary machinery	9		<ul> <li>The methods of measuring the load capacity of the engines are in accordance with technical specifications</li> <li>Performance is checked against</li> </ul>	
7. Functions and Mechanism of Automatic Control for Main Engine	3		<ul><li>bridge orders</li><li>Performance levels are in accordance with technical</li></ul>	
Functions and Mechanism of Automatic Control for Auxiliary Machinery	3		specifications	
9. Marine Steam Turbine	4			
Operation and maintenance of machinery, including pumps and piping system	2			
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.