

SKILLS FRAMEWORK FOR SEA TRANSPORT SKILLS MAP - MASTER ENGINEER (SPECIAL LIMIT)					
Sector	Sea Transport				
Track	Port				
Occupation	Marine Engineer (Special Limit)				
Job Role	Master Engineer (Special Limit)				
Job Role Description	The Master Engineer (Special Limit) manages ships powered by main propulsion machinery of less than 3,000 kW operating within Singapore's 'Special Limit' or about 30 nautical miles from Singapore's port. He/She is responsible for the ship's mechanical propulsion, the operation and maintenance of its mechanical and electrical installations. He must pass a colour vision test and must fulfil the requirements stipulated in the Standards of Training, Certification and Watchkeeping for Seafarers (STCW) issued by the International Maritime Organisation (IMO).				
Critical Work Functions, Key Tasks and Performance Expectations	Critical Work Functions	Maintain safe engineering watch	Key Tasks		Performance Expectations (For legislated / regulated occupations) In accordance with: • Standards of Training, Certification and Watchkeeping for Seafarers (STCW)
			Relieve, maintain and handover watch in accordance with practices and procedures and established safety rules and regulations		
			Acknowledge and carry out orders as given by the officer of the watch		
			Maintain proper records of movements and activities relating to ships' engineering systems		
	Operate electrical, electronic and control systems		Plan and carry out operations in accordance with operating manuals, established rules and procedures		
			Ensure safety of operations		
			Monitor machinery in accordance with schedules, operating conditions and instructions		
	Exercise personal survival techniques in emergency situations		Take appropriate action in compliance with established procedures upon identifying muster signals		
			Ensure timing and sequence of actions is appropriate to emergency situations		
			Ensure initial actions after leaving ships minimise threat to survival		
	Fight and extinguish fires		Ensure timing and sequence of actions is appropriate to the prevailing circumstances and conditions		
			Effect rescues in a smoke-filled space		
	Handle survival crafts in emergency situations		Take charge of survival crafts or rescue boats during and after launch		
			Manage survivors and survival crafts after abandoning ship		
			Use locating devices, including communication and signalling apparatus		
		Apply first aid to survivors			
Skills and Competencies	Technical Skills and Competencies		Generic Skills and Competencies (Top 5)		
	Electrical, Electronic and Control Engineering	Level 2	Communication	Basic	
	Engineering Watch	Level 2	Interpersonal Skills	Basic	
	Fire Prevention and Fire-fighting	Level 1	Teamwork	Basic	
	Personal Survival Techniques	Level 1	Problem Solving	Basic	
	Ship Medical Care	Level 1	Decision Making	Basic	
	Ship Security	Level 2			
	Survival Craft and Rescue Boats	Level 1			
Programme Listing	For a list of Training Programmes available for the Sea Transport sector, please visit: www.skillsfuture.sg/skills-framework/sea-transport				

The information contained in this document serves as a guide.