

**SKILLS FRAMEWORK FOR SEA TRANSPORT
TECHNICAL SKILLS AND COMPETENCIES (TSC) REFERENCE DOCUMENT**

TSC Category	Ship Emergency, Occupational Safety and Survival					
TSC	Fire Prevention and Fire-fighting					
TSC Description	Minimise the risk of fire and maintain a state of readiness to respond to emergency situations involving fire					
TSC Proficiency Description	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6
	STP-SOS-1001-1.1	STP-SOS-2001-1.1	STP-SOS-3001-1.1	STP-SOS-4001-1.1		
	Recognise muster signals and take appropriate emergency actions	Control fire-fighting operations using advanced training techniques in fighting fires, with particular emphasis on organisation, tactics and command	Prevent, control and fight fires on board	Maintain safety and security of vessels, crew and passengers and the operational condition of life-saving, fire-fighting and other safety systems		
Knowledge	<ul style="list-style-type: none"> Shipboard fire-fighting organisation Fire-fighting equipment and their location on board Emergency escape routes Elements of fire and explosion Types and sources of ignition Flammable materials, fire hazards and spread of fire Actions to be taken on board ships Fire and smoke detection and automatic alarm systems Classification of fire and appropriate extinguishing agents Breathing apparatus for fighting fires and effecting rescues 	<ul style="list-style-type: none"> Fire-fighting procedures at sea and in ports Use of water for fire-extinguishing, the effect on ship stability, precautions and corrective procedures Communication and coordination during fire-fighting operations Ventilation control including smoke extraction Control of fuel and electrical systems Fire-fighting process hazards Fire-fighting involving dangerous goods Fire precautions and hazards associated with the storage and handling of materials Management and control of injured persons Preparation of contingency plans 	<ul style="list-style-type: none"> Fire prevention and fire-fighting appliances Classes and chemistry of fire Action to be taken in the event of fire, including fires involving oil systems Fire drills 	<ul style="list-style-type: none"> Life-saving appliance regulations Fire drills and abandon ship drills Maintenance of life-saving, fire-fighting and other safety systems Ship construction, including damage control Methods and aids for fire prevention, detection and extinction Functions and use of life-saving appliances International Convention for the Safety of Life at Sea 		

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		<ul style="list-style-type: none"> • Composition and allocation of personnel to fire parties • Strategies and tactics for control of fires in various parts of a ship • Requirements for statutory and classification surveys 				
Abilities	<ul style="list-style-type: none"> • Identify muster signals • Take appropriate actions in accordance with indicated emergency and established procedures • Extinguish fires using appropriate procedures, techniques and fire-fighting agents • Ensure breathing apparatus procedures and techniques comply with accepted practices and procedures • Ensure timing and sequence of individual actions are appropriate to the prevailing circumstances and conditions 	<ul style="list-style-type: none"> • Conduct full and accurate assessments of incidents using all available sources of information • Minimise damage and potential damage to the ship, injuries to personnel and impairment of the operational effectiveness of the ship • Transmit prompt, accurate, complete and clear information • Ensure the prompt and effective implementation of emergency plans and procedures • Inspect and service fire-detection and fire-extinguishing equipment • Investigate and compile reports on fire incidents 	<ul style="list-style-type: none"> • Identify type and scale of problems • Take actions in accordance with ship emergency procedures and contingency plans • Implement evacuation, emergency shutdown and isolation procedures • Ensure the order of priority, and levels and time-scales of making reports and informing personnel are relevant to the nature of emergencies • Organise fire drills 	<ul style="list-style-type: none"> • Act upon all alarms in accordance with established emergency procedures • Take actions to protect and safeguard all persons on board in emergencies • Limit damage and salvage the ship following fire, explosion, collision or grounding • Develop emergency and damage control plans and handle emergency situations 		