

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

TSC Category	Marine Surveying					
TSC	Marine Incident and Accident Investigations					
TSC Description	Investigate different types of marine incidents and accidents in collaboration with other relevant agencies, where necessary, to determine their causes and recommend preventive measures					
TSC Proficiency Description	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6
				STP-MSU-4002-1.1	STP-MSU-5002-1.1	
				Conduct marine accident investigations	Lead marine accident investigations	
Knowledge				<ul style="list-style-type: none"> • International legal bases for marine accident investigations • International Safety Management (ISM) Code and accident investigation • Types of marine accidents, including: <ul style="list-style-type: none"> ○ Collision, contact and grounding accidents ○ Ship fires ○ Ship structural failures, loading and stability problems ○ Mechanical failure and maintenance error accidents ○ Marine occupational health and safety accidents • Management of marine accident investigations <ul style="list-style-type: none"> ○ Advanced interview techniques ○ Human performance and human factors in marine accidents ○ Human factors analysis and classification tools • Marine accident site 	<ul style="list-style-type: none"> • International legal bases for marine accident investigations • International Safety Management (ISM) Code and accident investigation • Types of marine accidents, including: <ul style="list-style-type: none"> ○ Collision, contact and grounding accidents ○ Ship fires ○ Ship structural failures, loading and stability problems ○ Mechanical failure and maintenance error accidents ○ Marine occupational health and safety accidents • Management of marine accident investigations <ul style="list-style-type: none"> ○ Advanced interview techniques ○ Human performance and human factors in marine accidents ○ Human factors analysis and classification tools • Marine accident site 	

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				<ul style="list-style-type: none"> • Risk assessment and hazard identification procedures at a marine accident site • Evidence preservation and collection in common marine accident scenarios • Workplace Safety and Health (WSH) policies and procedures 	<ul style="list-style-type: none"> • Risk assessment and hazard identification procedures at a marine accident site • Evidence preservation and collection in common marine accident scenarios 	
Abilities				<ul style="list-style-type: none"> • Collaborate with relevant agencies in investigative work • Conduct witness interviews • Collect material evidence from a variety of relevant sources • Analyse evidence to develop a no-blame report of what occurred • Propose recommendations for future prevention 	<ul style="list-style-type: none"> • Coordinate with relevant agencies in investigative work • Conduct witness interviews • Collect material evidence from a variety of relevant sources • Review evidences and coverage of no-blame reports of what occurred • Engage with experts to gain alternative views • Vet proposed recommendations for future prevention • Determine viability of marine insurance claims 	