

SKILLS FRAMEWORK FOR SEA TRANSPORT SKILLS MAP – PLAN APPROVAL ENGINEER				
Sector	Sea Transport			
Track	Maritime Services			
Sub-track	Technical Services			
Occupation	Plan Approval Engineer			
Job Role	Plan Approval Engineer			
Job Role Description	The Plan Approval Engineer assists with the review of vessel design and inspects drawings and documentation to ensure that ship owners' and safety requirements are met for vessel construction. He/She supports collaborations with stakeholders to ensure contractual requirements are met. He participates in meetings with shipyard planners regarding the processes of ship design, construction, and compliance related matters, with reference to International Maritime Organisation (IMO) regulations, the International Convention for the Safety of Life at Sea (SOLAS), and International Convention for the Prevention of Pollution from Ships (MARPOL). He works well under limited supervision and applies subject knowledge to solve routine vessel design issues faced by internal and external stakeholders.			
Critical Work Functions, Key Tasks and Performance Expectations	Critical Work Functions	Key Tasks		Performance Expectations (For legislated / regulated occupations)
	Manage plan approval processes	Identify new technologies to improve plan		In accordance to: International
		approval documentation processes		
		Support the development of updated classification standards on plan approvals based on evolving technical requirements		Maritime Organisation (IMO)
	Review vessel design documentation	Analyse technical drawings, documentation and		regulations
		other essential plans sent for approval to ensure ship owners' requirements are met		 The International Convention for
		Analyse structure, stability, tonnage load verification and other key aspects of vessel design and construction through the use of software the		the Safety of Life
				at Sea (SOLAS)
				International
				Convention for the Prevention of
		Appraise the certifications of materials and equipment used		Pollution from
	Refine design plans	Resolve technical issues and escalate difficult Ships		
	a construction of the cons	issues from shipyards, ship owners and other stakeholders for resolution Recommend changes and improvements to design plans based on statutory regulations, class requirements and owner requirements Support collaboration between designers, ship builders, ship yards and other key stakeholders for approval and implementation of design plans Assess ship plans following modification or		(MARPOL)
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Skills and Competencies	Technical Skills and Competencial 3D Modelling	Level 3	Generic Skills and Compe Computational Thinking	Basic
	Cyber Security	Level 3	Sense Making	Basic
	Electrical Design Approval	Level 2	Problem Solving	Basic
	Engineering Drawing Interpretation and	Level 3	Communication	Basic
	Management			
	Engineering Safety Standards Interpretation	Level 3	Teamwork	Basic
	Marine Design Customisation	Level 3	_	
	Marine Equipment Material Selection Naval Architecture Calculations	Level 3		
	Quality Assurance	Level 3		
	Regulatory Compliance	Level 3		
	Service Excellence	Level 3		
	Solution Design Thinking	Level 3		
	Stakeholder Management	Level 3		
	Technology Integration	Level 2		
Programme Listing	For a list of Training Programmes available for wwww.skillsfuture.sg/skills-framework/sea-trans	•	ort sector, please visit:	
The information contained in this document serves as a guide.				