

SKILLS FRAMEWORK FOR SEA TRANSPORT SKILLS MAP – LEAD PLAN APPROVAL ENGINEER				
Sector	Sea Transport			
Track	Maritime Services			
Sub-track	Technical Services			
Occupation	Plan Approval Engineer			
Job Role	Lead Plan Approval Engineer			
Job Role Description	<p>The Lead Plan Approval Engineer oversees plan approval processes to ensure alignment of vessel constructions with statutory regulations and class requirements, including 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).</p> <p>He keeps abreast of organisational standards and international regulations, and revises plan approval policies to ensure they are up to date. He leads engagement activities in meetings with shipyard planners and provides subject matter expertise to stakeholders regarding technical issues on vessel design.</p> <p>He has deep industry expertise to solve problems relating to vessel design and possesses stakeholder management skills to effectively manage and build rapport with internal and external stakeholders.</p>			
Critical Work Functions, Key Tasks and Performance Expectations	Critical Work Functions	Key Tasks		Performance Expectations (For legislated/regulated occupations)
	Manage plan approval processes	Maintain and update plan approval policies according to organisational standards and international regulations		In accordance to: <ul style="list-style-type: none"> • International Maritime Organisation (IMO) regulations • The International Convention for the Safety of Life at Sea (SOLAS) • International Convention for the Prevention of Pollution from Ships (MARPOL)
		Formulate strategies to enhance plan approval documentation processes		
		Oversee the publication of updated classification standards on plan approvals		
	Review vessel design documentation	Approve technical drawings, documentation and other essentials plans, and provide advice on design processes		
		Review all vessel engineering designs to ascertain performance standards and stability in accordance to statutory regulations and class requirements		
	Refine design plans	Manage escalated technical issues and provide subject matter expertise for resolutions		
Oversee refinements made to design plans and ensure alignment with organisation's policies, regulations and quality requirements				
Lead client engagement activities and formulate strategies to improve stakeholder collaboration processes				
	Review post-modification vessel plan approval processes			
Skills and Competencies	Technical Skills and Competencies		Generic Skills and Competencies (Top 5)	
	3D Modelling	Level 4	Decision Making	Advanced
	Business Negotiation	Level 5	Leadership	Advanced
	Cyber Security	Level 3	Communication	Advanced
	Electrical Design Approval	Level 4	Managing Diversity	Advanced
	Engineering Drawing Interpretation and Management	Level 5	Interpersonal Skills	Advanced
	Engineering Safety Standards Interpretation	Level 5		
	Marine Design Customisation	Level 5		
	Naval Architecture Calculations	Level 5		
	Organisational Strategy and Policy Realisation	Level 5		
	Quality Assurance	Level 5		
	Regulatory Compliance	Level 5		
	Service Excellence	Level 5		
	Solution Design Thinking	Level 5		
	Stakeholder Management	Level 5		
Technology Integration	Level 4			
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.