

SKILLS FRAMEWORK FOR MARINE AND OFFSHORE SKILLS MAP - SENIOR PROJECT ENGINEER					
<b>Sector</b>	Marine and Offshore				
<b>Track</b>	Project Management				
<b>Occupation</b>	Project Engineer				
<b>Job Role</b>	<b>Senior Project Engineer</b>				
<b>Job Role Description</b>	<p>The Senior Project Engineer is responsible for executing project management plans from start to finish, to ensure project completions on time, and within budget. He/She typically comes from an engineering background with work experience in production and/or design, and is able to develop project schedules, budgets and manage project staff and subcontractors.</p> <p>He has good communication and negotiation skills for engaging and interacting with both internal and external parties, which entails liaising with other departments within the organisation to secure specialised resources and contributions for projects, and managing ongoing relationships with sub-contractors. The Senior Project Engineer oversees sub-contractors' schedules, performance, and payments, and has the responsibility to exercise decision-making to reschedule and coordinate work to ensure compliance with applicable project schedules.</p> <p>He also conducts project meetings and prepares reports to communicate the status of projects to key stakeholders.</p>				
<b>Critical Work Functions and Key Tasks</b>	<b>Critical Work Functions</b>		<b>Key Tasks</b>	<b>Performance Expectations (For legislated / regulated occupations)</b>	
				In accordance with: <ul style="list-style-type: none"> <li>• Classification Society regulations;</li> <li>• Workplace Safety and Health (WSH) Act</li> </ul>	
	Oversee project plans and execution		Monitor project scopes, budgets and schedules		
			Review project and sub-contractor contracts		
			Coordinate with other departments on financial, technical, and administrative aspects of projects		
			Interpret design drawings and specification plans to identify potential risks and deviations		
			Manage project documentation		
			Ensure project outcome delivery within schedule and specifications		
			Facilitate handovers of financial, technical, and administrative information		
	Manage project risks		Identify risks throughout the project lifecycle		
			Perform complex risk assessment		
	Manage project resources		Draft resource plans for projects		
			Propose areas of improvement for resource allocation and usage		
	Manage warranty claims and variation orders		Support quality assurance (QA) in evaluating warranty claims		
			Lead execution of variation orders in coordination with production		
		Plan and track implementation of forward measures and ensure final acceptance by clients			
Lead project reviews		Review project management outcomes to determine areas of improvement			
		Monitor improvements to project management functions			
Manage project quality		Implement QA procedures in collaboration with QA department			
		Coordinate quality testing activities of project deliverables			
		Evaluate project deliverables in accordance with project requirements			
		Identify areas of improvement for project quality			
		Liaise with quality assurance and quality control (QA/QC) department to manage quality of project deliverables			
<b>Skills &amp; Competencies</b>	<b>Technical Skills and Competencies</b>		<b>Generic Skills and Competencies (Top 5)</b>		
	Big Data Analytics	Level 4	Teamwork	Advanced	
	Business Negotiation	Level 4	Interpersonal Skills	Intermediate	
	Business Presentation Delivery	Level 4	Problem Solving	Intermediate	
	Business Proposal Writing	Level 4	Leadership	Intermediate	
	Change Management	Level 3	Data Analytics	Intermediate	
	Commissioning Coordination	Level 4			
	Component Assembly	Level 4			
	Continuous Quality Improvement	Level 3			
Contract Development and Management	Level 4				

	Crisis Management	Level 3
	Emergency Response Management	Level 2
	Financial Budgeting	Level 3
	Financial Planning	Level 3
	Manpower Forecasting	Level 4
	Manufacturing Workflow Management	Level 4
	Marine Engineering Calculations	Level 3
	Naval Architecture Calculations	Level 4
	Operational Risk Management	Level 3
	Organisational Performance Management	Level 3
	Programme Management	Level 5
	Project Coordination	Level 4
	Project Feasibility Assessment	Level 5
	Project Quality Management	Level 4
	Project Risk Management	Level 4
	Quality Engineering Integration	Level 3
	Quality System Management	Level 4
	Service Excellence	Level 3
	Staff Performance Management	Level 3
	Stakeholder Management	Level 4
	Technical Inspection	Level 3
	Technical Writing	Level 4
	Value Engineering	Level 4
	Vendor Management	Level 4
	WSH Culture Development	Level 2
	WSH Performance Management	Level 2
<b>Programme Listing</b>	For a list of Training Programmes available for the Marine and Offshore sector, please visit: <a href="http://www.skillsfuture.sg/skills-framework/marineandoffshore">www.skillsfuture.sg/skills-framework/marineandoffshore</a>	

The information contained in this document serves as a guide.