

SKILLS FRAMEWORK FOR MARINE AND OFFSHORE SKILLS MAP - SUPERVISOR/CHARGEHAND/FOREMAN			
Sector	Marine and Offshore		
Track	Production Engineering		
Occupation	Marine Production Technician		
Job Role	Supervisor/Chargehand/Foreman		
Job Role Description	<p>The Supervisor/Chargehand/Foreman oversees workers to ensure completion of individual tasks relating to manufacturing, servicing and repairs, troubleshooting and/or machinery calibration. He/She monitors assigned tasks, ensures tasks are appropriately staffed and supervised to meet schedules, budget and client requirements. He provides directions for continuous process improvement activities within assigned tasks.</p> <p>The Supervisor/Chargehand/Foreman requires an aptitude for people and diversity management, as well as empathy to appreciate the challenges to communication and understanding arising from the cultural differences of his workers. He should be adaptable to work under different job demands to handle new build projects that require attention to detail and repair jobs which emphasise quick response and turnaround.</p> <p>His duties require working outdoors on the shop floor, within dry docks and on-board ships, and must possess a level of physical fitness appropriate to the job requirements. He is also required to work in shifts based on operation schedules and project timelines.</p>		
Critical Work Functions and Key Tasks	Critical Work Functions	Key Tasks	Performance Expectations (For legislated / regulated occupations)
	Manufacture marine components	Check operational readiness of production equipment and machinery	In accordance with: • Classification Society regulations; • Workplace Safety and Health (WSH) Act
		Carry out in-process quality checks	
		Supervise workers for appropriate use of materials, machining techniques and compliance with work instructions and workplace safety and health (WSH) requirements	
		Verify correctness of final manufactured components against specifications	
		Ensure upkeep of production work areas	
	Assemble ships, rigs and marine equipment	Measure manufactured components for conformance with specifications before assembly	
		Ensure correct work materials are used and components are assembled in accordance with drawings, instructions and workflow plans	
		Check machining parameters for assembly jobs	
		Coordinate erection of supports for assembly works	
		Formulate lift plans for hull blocks	
		Test assembled devices for functionality	
		Coordinate installation processes with other production teams	
		Establish equipment connections with other marine equipment and systems in accordance to design specifications	
	Plan surface preparation and protection	Troubleshoot problems during assembly or installation processes and highlight practical issues about unfeasible designs or drawings	
		Coordinate movement of hull blocks into designated work areas	
		Monitor operations and make adjustments to achieve desired quality	
		Check finished components for defects and compliance with required specifications	
	Execute launching operations	Dispose post-operation wastes in accordance with safe working practices and approved procedures	
		Coordinate construction of launching cradles	
Coordinate fastening of loose items on-board ships and rigs before launch			
Prepare launch ways			
Transfer ship and rig loads to launch ways			
Prepare drag weights to manage launch speed			
Execute maintenance and repair of ships, rigs, equipment and systems	Reinstate and restore slipways after launch		
	Schedule servicing, overhaul and replacement jobs		
	Raise request orders for spare parts		
		Coordinate classification society surveys in presence of ship owners	

	Technical Skills and Competencies		Generic Skills and Competencies (Top 5)	
	Skills & Competencies	Additive Manufacturing	Level 2	Leadership
Commissioning Coordination		Level 2	Teamwork	Intermediate
Component Assembly		Level 2	Managing Diversity	Intermediate
Computer Numeric Control Operations		Level 2	Service Orientation	Intermediate
Electrical Testing		Level 2	Interpersonal Skills	Intermediate
Emergency Response Management		Level 2		
Forming		Level 2		
Incident and Accident Investigation		Level 2		
Installation Planning and Execution		Level 2		
Instrumentation and Control System Design		Level 2		
Joining and Welding		Level 2		
Laser and Optics Application		Level 2		
Launch Planning and Management		Level 3		
Lift Planning and Management		Level 3		
Machining		Level 2		
Marine Auxiliary System Maintenance		Level 2		
Marine Equipment and System Maintenance		Level 3		
Non-destructive Testing		Level 3		
Programme Management		Level 2		
Quality System Management		Level 2		
Robotics and Automation Application		Level 2		
Scaffolding		Level 3		
Structural Testing		Level 2		
Surface Preparation and Protection		Level 2		
Technical Inspection	Level 2			
Technical Writing	Level 2			
Value Engineering	Level 2			
WSH Culture Development	Level 2			
WSH Performance Management	Level 2			
Programme Listing	For a list of Training Programmes available for the Marine and Offshore sector, please visit: www.skillsfuture.sg/skills-framework/marineandoffshore			

The information contained in this document serves as a guide.